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**FINAL
GEOPHYSICAL SURVEY REPORT**

**HOWE VALLEY LANDFILL
HARDIN COUNTY, KENTUCKY**

Prepared by:

**HATCHER-SAYRE, INC.
Lexington, Kentucky
February 10, 1993**

Job No. 0064-001

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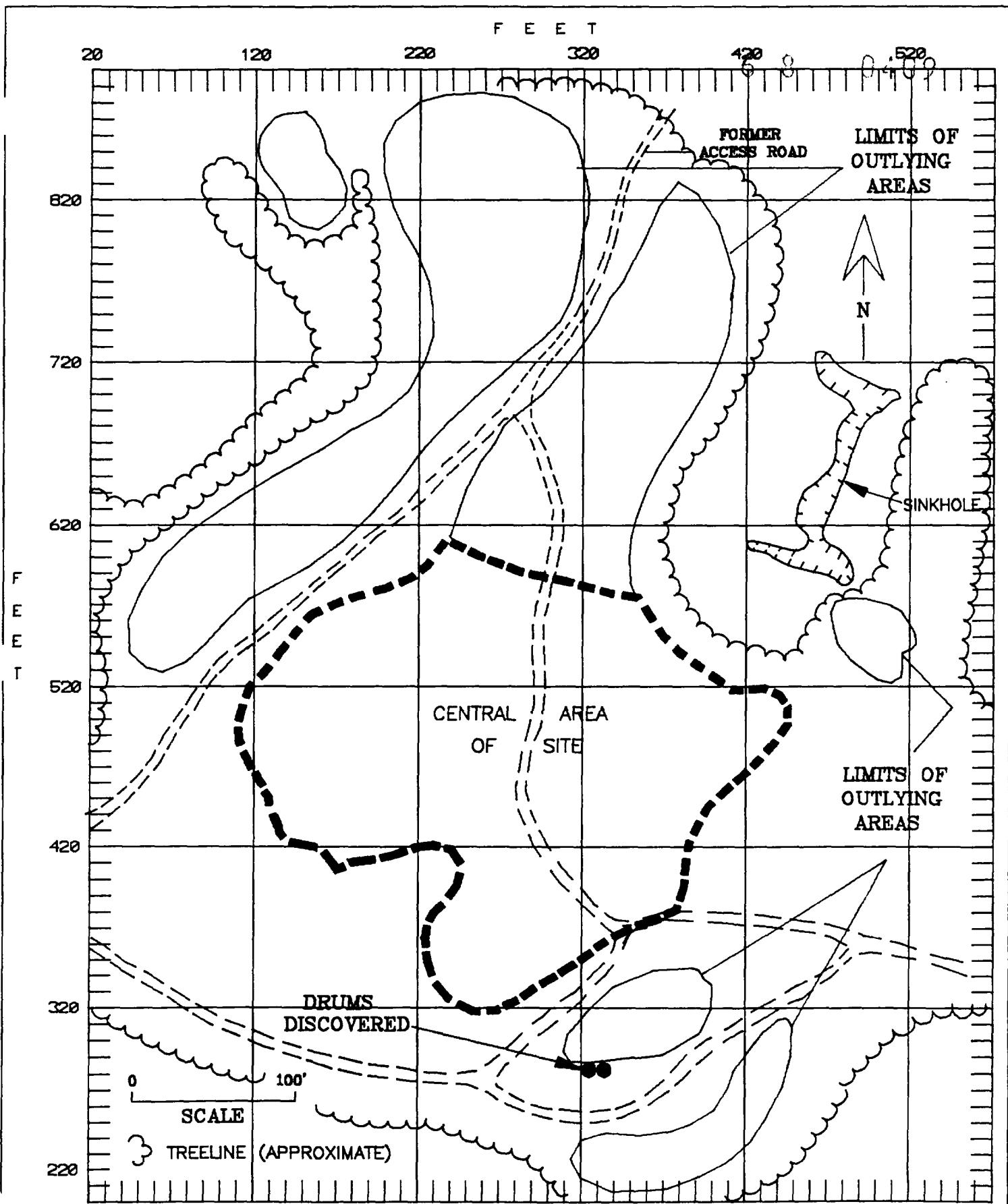
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BACKGROUND

As reported to EPA, in preparation for the implementation of the Organic Pilot Treatability Study at the Howe Valley Landfill Site, the construction of a drainage ditch to control precipitation run-on uncovered two upright, intact drums. These drums, located at approximately 335X, 290Y on the Site grid system (Figure 1), appeared to contain either solid silicone or paint sludge covered with several inches of water. The PID meter readings at the drum openings were $40\pm$ ppm. Upon discovery, the Field Supervisor immediately shut down further operations and initiated decontamination of the equipment. Hatcher-Sayre, Inc.'s Project Manager was notified and he, in turn, notified Dow Corning, who notified EPA. Arrangements were made to ship an Electromagnetic (EM) Terrain Conductivity Meter to the Site to investigate the possibility of additional drums.

Following discussions with Dow Corning and EPA, it was decided to utilize two types of geophysical survey techniques; the electromagnetic terrain conductivity (EM) meter and the proton precession magnetometer. The magnetometer would provide an indication of buried metal objects (drums) while the EM should detect drums plus other material buried at the Site, e.g., plastic drums, silicone tubes, plastic-lined cardboard containers, uncontainerized solid silicone, etc. A geophysical work plan was prepared and included in the Revised Investigation and Handling of Drums Work Plan. The geophysical surveys were approved by EPA on October 13, 1992. The following sections describe the geophysical procedures and results.



DATE: 2/10/93

DRAWN BY: PDH

APPROVED BY: JDK

FIGURE 1

SITE SHOWING LOCATION
OF DISCOVERED DRUMS

HATCHER-SAYRE, INC.

LEXINGTON, KY

CLIENT NO.: 0064-001

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FIELD SAMPLING PROCEDURES

EM-31 Conductivity Meter Survey

This survey utilized an EM-31D Noncontacting Terrain Conductivity Meter. For this instrument, a transmitter-induced coil directs induced current loops into the ground, which produce secondary fields. These secondary fields are then sensed or detected by the receiver coil, amplified and displayed on a meter in millimhos/meter.

Inductive electromagnetic methods are used to locate subsurface conductivity variations. These methods are also useful in defining areas that contain various concentrations of conductive materials (i.e., metal drums, lids, rings, etc.). The EM-31D measures the electromagnetic waves that are induced by metallic materials by high frequency currents. The EM-31D operates at a 9.3 kHz frequency. The current sources are generally circular loops in either the horizontal or the vertical plane or elongated horizontal wires, depending upon the position of the instrument.

The geophysical instruments were calibrated in accordance with the manufacturer's specified calibration procedures. Since the natural conductivity of the Site's soils are not known, calibrations were performed in the same location at the Site each time. The background values varied from 16 to 17 millimhos per meter and were considered normal for comparing the data collected within the work area. A large deviation from normal, either high or low, was considered an anomaly if no explanation was observed (i.e., metallic surface debris, vehicles, water tanks, etc.). The calibration was checked periodically to insure accurate readings,

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especially when re-entering the study area after having left for a period of time. All calibration procedures and pertinent information were documented in the field logbook.

The assembly and calibration procedures for the EM-31D were as follows:

- Aligned and connected transmitter tube to control box.
- Checked batteries by setting mode switch to operate position and range switch to +B position and then to -B position. If the needle did not read in the battery range, the batteries were replaced.
- Aligned and connected receiver tube to control box.
- Set range switch to 30 millimhos/meter position.
- Set mode switch to COMP position.
- Adjusted meter to zero using coarse and fine COMP controls.
- Checked phasing, set mode switch to phase position.
- Noted meter reading.
- Rotated coarse control to original position. No further adjustments were needed.
- Rotated phase potentiometer 1/4 turn clockwise and noted meter reading.
- Rotated coarse control one step clockwise and noted meter reading.
- If meter reading did not change, no further adjustment was needed. Returned coarse control to original position.
- If meter reading changed, the above adjustments were repeated until meter reading remained the same when coarse control was rotated one step clockwise.
- Meter read between 75-85 percent of full scale (in Black Mark).
- Returned coarse control to original position.
- EM-31D was then ready for operation.

The operating procedures for the EM-31D were as follows:

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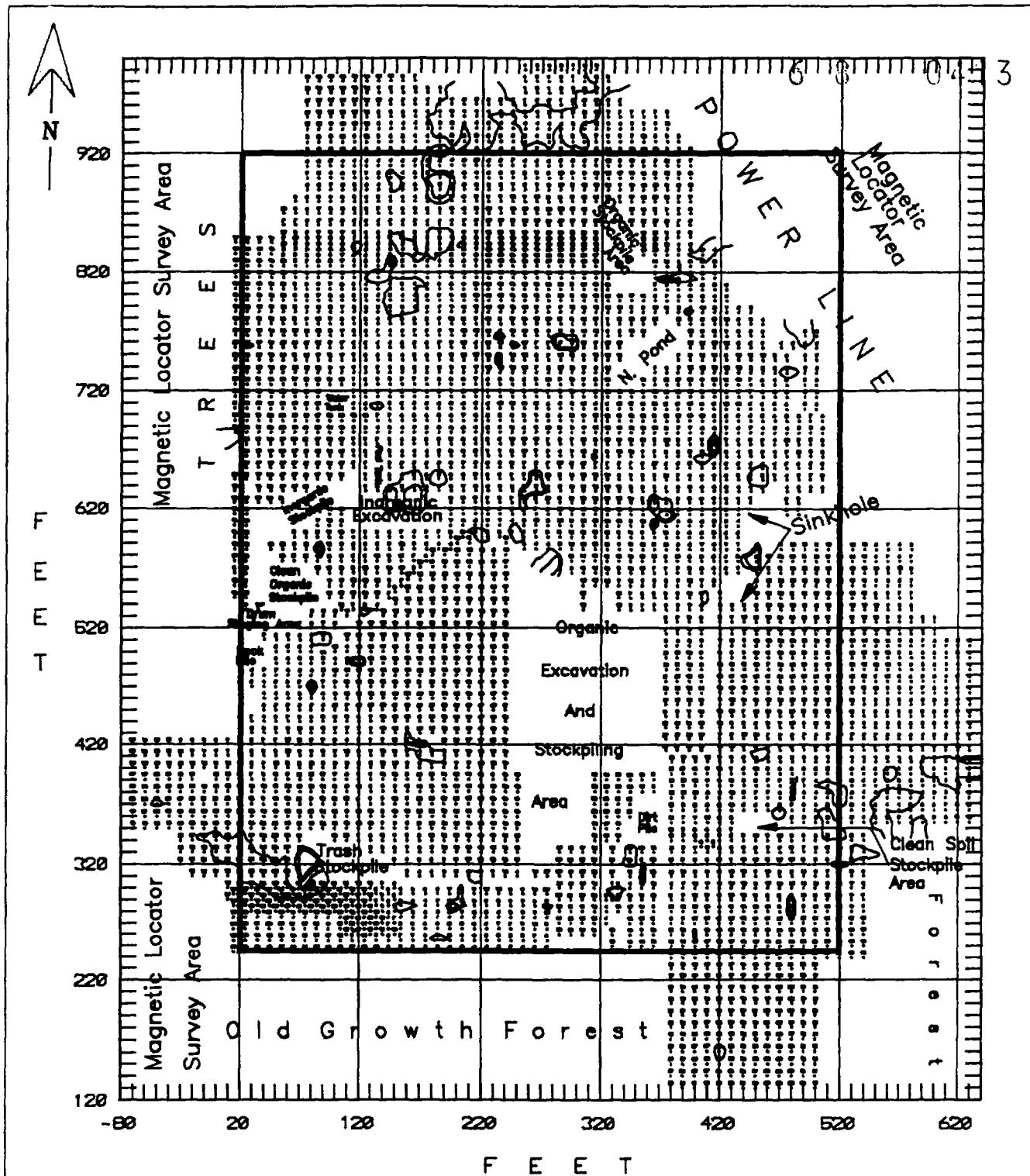
- Concrete grid markers were set up at the edge of the Site. Established a grid on 10-foot centers throughout the area to be surveyed.
- Adjusted the shoulder strap so that the instrument rested comfortably on the hip.
- Switched the mode switch to OPER position and rotated range switch so that meter read in upper 2/3 of the scale. Since a number of locations at the Site had conductivities greater than 30 millimhos/m, the range was set at 100 millimhos/m.
- The EM-31D was operated continuously while moving from one measurement point to the next, moving in a north or south S-pattern.
- Recorded readings in field logbook, noting alpha-numeric coordinates.
- When data indicated the presence of anomalies, intermediate areas were measured and the anomalous area staked (flagged). Transferred readings to the SURFER® computer program.

The EM Survey was conducted over essentially the entire original 11 acres of the work site (Figure 2). Additional areas, outside of the 11 acres, were surveyed when it was felt that the area could serve as a drum disposal location.

The areas not surveyed due to trees and being outside of the Site boundaries are:

- The forested area on the western and northwestern edge of the Site;
- The old forested area on the south and southwestern edge of the Site;
- The clean soil stockpile area to the southeast of the Site; and
- The sinkhole and power line located at the northeast edge of the Site.

Areas not surveyed due to stockpiles, pits, ponds and sinkholes are the locations at:



DATE: 2/3/93	FIGURE 2 GRID MAP SHOWING LOCATIONS OF EM SURVEY	HATCHER-SAYRE, INC. LEXINGTON, KY
DRAWN BY: PDH		
APPROVED BY: JDK		CLIENT NO.: 0064-001

X	Y		6	8	0	4	1	4
320	850	(north stockpile)						
350	750	(north pond)						
90	630	(inorganic stockpile)						
160	620	(inorganic pit)						
440	550	(sinkhole)						
480	610	(sinkhole)						
490	610	(sinkhole)						
60	560	(clean organic stockpile)						
450	350	(clean organic stockpile)						
300	470	(organic pit)						
360	350	(south stockpile)						
280	360	(south stockpile)						
100	320	(metal and debris pile)						

The areas void of EM survey data were surveyed with the MAC-51B Receiver Magnetic and Cable Locator and were checked with the EM on the COMP mode.

Proton Precession Magnetometer

The geophysical reconnaissance program also utilized a proton precession magnetometer. Data were obtained using a grid pattern with dimensions of 10 or 20 feet between survey stations, depending upon the level of detail required. Individual drums can be detected at depths up to 18 feet (Ref. "Geophysical Techniques for Sensing Buried Wastes and Waste Migration", Benson, Richard C.; Environmental Monitoring Systems Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Las Vegas, Nevada, 1982). This depth of exploration projects to approximately 14 feet for an object 10 feet away (lateral direction). Vertical gradient measurements were not conducted. High resolution of anomalies was provided by secondary magnetic traverses and EM surveys.

The geophysical technique utilized for this survey was the

full-field earth magnetic field measurement, utilizing a total field proton (nuclear precession) EG&G Model 856AX extended memory magnetometer. The magnetic sensor was set at approximately 6 feet and the instrument was calibrated and tuned according to EG&G manual instructions. The chosen elevation of the magnetic sensor, 6 feet, was determined by balancing the trade-off between depth of penetration and ground surface noise reduction. This elevation is considered acceptable for reconnaissance surveys (Ref. above). Drift and magnetic diurnal variations were monitored by returning to a base station for a calibration measurement once every hour. The primary purpose of obtaining diurnal variations is to detect time-variant changes in magnetic field for normalization of data. An hourly base station reading was obtained throughout the duration of the survey (Table 1). A linear correction for each magnetic reading was calculated and applied to each data point (total change in base station was divided into 60-minute intervals and reading adjustments were made based on reading time). The correction function is applied in the field, prior to any data analysis. Units of measurement for this instrument are gammas. Data were evaluated on a daily basis for quality control purposes, as well as for assistance in locating areas for more detailed assessment.

The proton precession magnetometer survey was conducted by Pyramid Environmental, Inc., Greensboro, North Carolina on October 20 and 21, 1992, approximately five weeks following the start of the excavation and treatment activities. As a result, several areas were not accessible due to excavation and, therefore, the grids were established around these areas. The inaccessible areas

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TABLE 1

MAGNETIC GEOPHYSICAL PROGRAM
BASE STATION MEASUREMENTS
(GAMMAS)

October 20, 1992

9 AM	55152
10 AM	55164
11 AM	55156
12 AM	55156
1 PM	55136
4 PM	55148
5 PM	55153

October 21, 1992

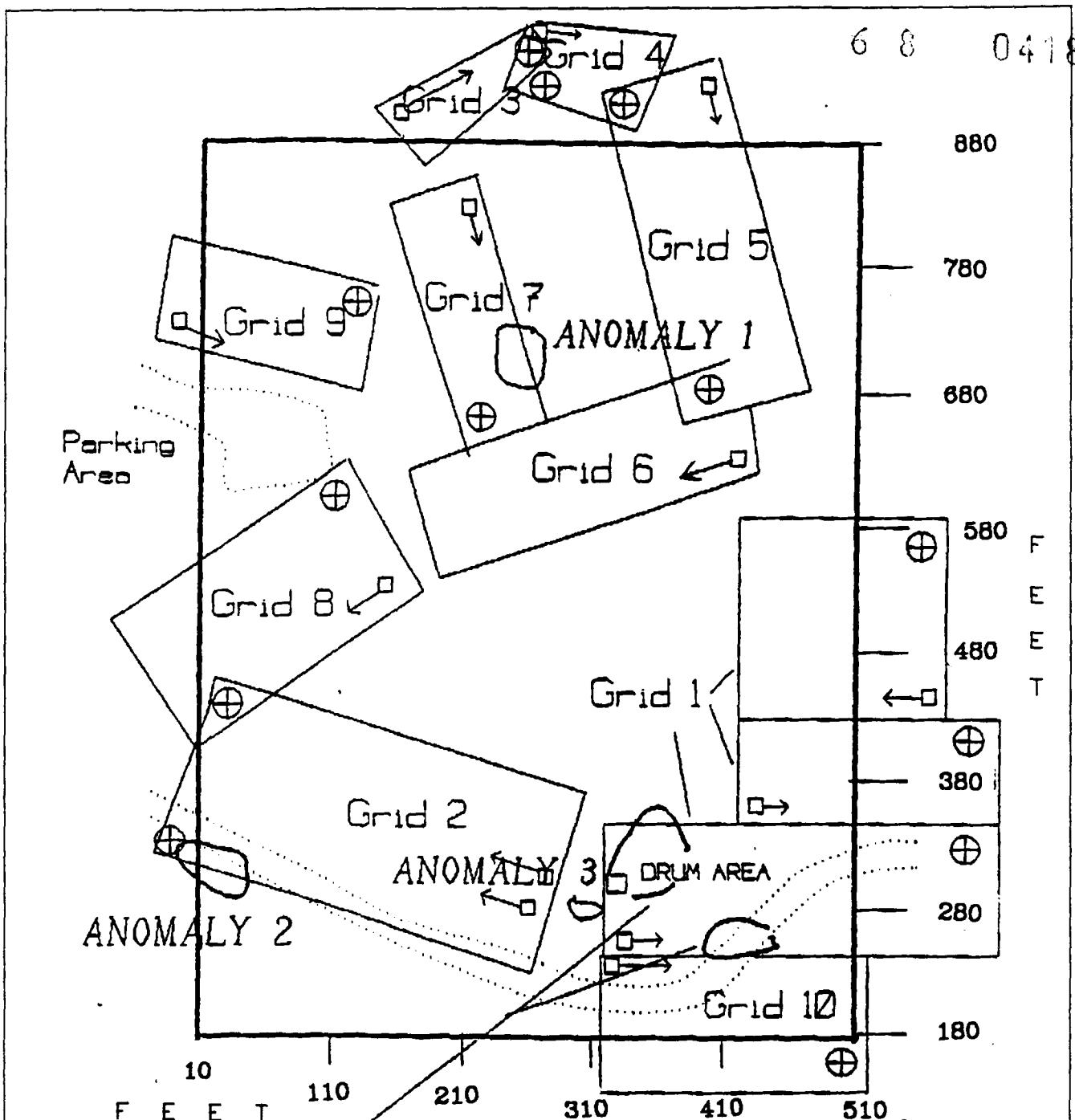
8 AM	55155
9 AM	55171
10 AM	55160
11 AM	55137
1 PM	55152
2 PM	55155

6 8 0 4 17
included the central excavation area, the northern, southern and eastern aeration areas, the organically-contaminated soil stockpile areas and the inorganic excavation and stockpile areas. The resulting grid pattern at the Site is shown in Figure 3. The survey grid locations were established utilizing a hand compass and measuring tape.

RESULTS AND DISCUSSION

EM Survey

The EM survey produced 34 coordinates (17 anomalous areas) with values at or below zero. Table 2 presents the zero or less anomalous data locations by X,Y coordinates. All of the EM data points were entered into the SURFER® program. Figure 4 indicates the locations of the zero-point anomalies. Based upon visual observations, low EM values were generally drum lids and rings, metallic debris and small 1-gallon and pint-size containers. Zero EM values were generally 5- and 55-gallon drums, numerous 5- and 55-gallon drum lids and rings and/or large amounts of metallic debris (including culverts). Road culverts comprised four of the 17 zero anomalies (Anomalies 4, 7, 12 and 15). Anomalies of 3 millimhos or less, found at 27 locations, generally consisted of small amounts of debris or near-surface bedrock. Since all anomalies of 3 millimhos or less, including negative readings, were flagged for excavation, the recording of negative readings was unnecessary and, therefore, such readings were recorded as zero. The location and description of each of the 44 anomalies are presented in the attached foldout map at the back of the report and



SOURCE: PYRAMID ENVIRONMENTAL, 1992

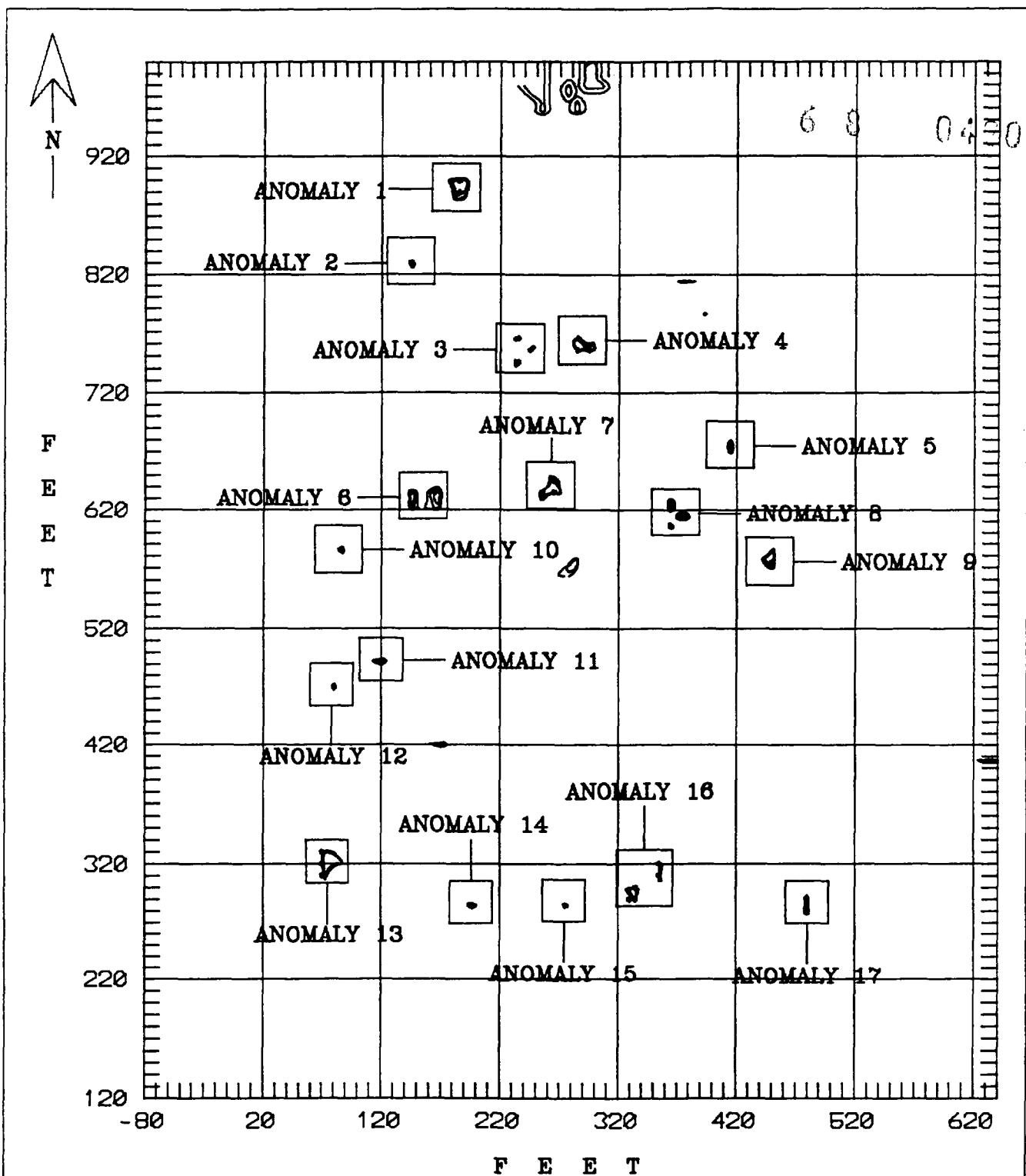
DATE: 2/10/93	FIGURE 3 SELECTED LOCATIONS SURVEYED BY THE PROTON PRECESSION MAGNETOMETER	HATCHER-SAYRE, INC. LEXINGTON, KY
DRAWN BY: PDH		
APPROVED BY: JDK		CLIENT NO.: 0064-001

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TABLE 2

EM-31 SURVEY DATA
ZERO-POINT ANOMALY COORDINATES

<u>ANOMALY</u>	X	Y	Z (millimhos/m)
1	185	890	0
	185	900	0
2	145	830	0
3	245	755	0
	235	745	0
	235	765	0
4	295	755	0
	285	755	0
	285	765	0
5	415	675	0
6	165	635	0
	145	635	0
7	265	635	0
	265	645	0
	255	635	0
8	375	615	0
	365	625	0
	365	605	0
9	450	575	0
10	85	585	0
11	120	490	0
12	80	470	0
13	70	320	0
	70	330	0
	70	310	0
14	195	285	0
15	275	285	0
16	355	320	0
	355	310	0
	335	300	0
	335	290	0
	330	290	0
17	480	280	0
	480	290	0



SURFER® GENERATED

MINIMUM CONTOUR = 0
MAXIMUM CONTOUR = 1.8
CONTOUR INTERVAL = 0.6

DATE: 1/29/93

FIGURE 4

HATCHER-SAYRE, INC.

DRAWN BY: PDH

LEXINGTON, KY

APPROVED BY: JDK

EM SURVEY
ZERO-POINT ANOMALIES

CLIENT NO.: 0064-001

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Attachment 1, respectively. A printout of all of the EM data is provided in Attachment 2.

Forty-three of the 44 anomalies were investigated by excavating the anomalous areas with a trackhoe. Anomaly 30 has not yet been investigated since it is located in our current decontamination area. This area will be investigated during the latter stages of the remedial action.

As indicated earlier, four of the anomalies were the result of culverts installed as part of the site drainage system (Anomalies 4, 7, 12 and 15). Three anomalies produced drums containing waste material (Anomalies 3, 16 and 19; number 19 was adjacent to Anomaly 16). Three locations contained empty or pieces of 55-gallon drums (Anomalies 5, 8 and 23). Two anomalies contained chromium metal sludge (Anomalies 10 and 32) and two contained copper metal sludge (Anomalies 34 and 40). One anomaly contained a 3- to 4-foot piece of railroad track and ferric minerals. Another contained ferric minerals beneath a concrete slab; a third contained a small piece of barbed wire (Anomalies 18, 13 and 27, respectively). Nine anomalies (22, 24, 25, 28, 36, 38, 42, 43 and 44) were indicative of shallow bedrock conditions; no debris was found. The remaining 17 anomalies contained varying amounts of debris, i.e., solid silicone pieces, silicone tubes, 1- and 5-gallon containers, 1-pint cans, drum lids and rings, wooden pallets, unidentifiable metals, debris and trash.

The drums were excavated, overpacked, sampled for waste characterization and staged for subsequent proper disposal. The sludges were stockpiled separately for later bulk disposal. Those

areas containing small amounts of debris were hand-picked to remove the debris and the debris stockpiled. Areas containing large amounts of debris which could not be separated from the soil were excavated and the soil/debris stockpiled for subsequent disposal.

Proton Precession Magnetometer Survey

Results of the proton precession magnetometer survey can be evaluated by reviewing the attached figures. As indicated previously, the overall project area was divided into ten separate grids for analysis (Figure 3). A printout of the magnetometer data is shown in Attachment 3. The depth estimations provided in this section are rough approximations based on widths and magnitudes of magnetic variations. The "Half-Width" rules are commonly used guidelines for determining depth estimates. The rules show that the depth to anomaly centers is related to the half-width of the horizontal anomaly (Applications Manual for Portable Magnetometers, S. Breiner, Geometrics, 1973). Detailed discussions of the survey results for each of the grids follow.

Grid #1

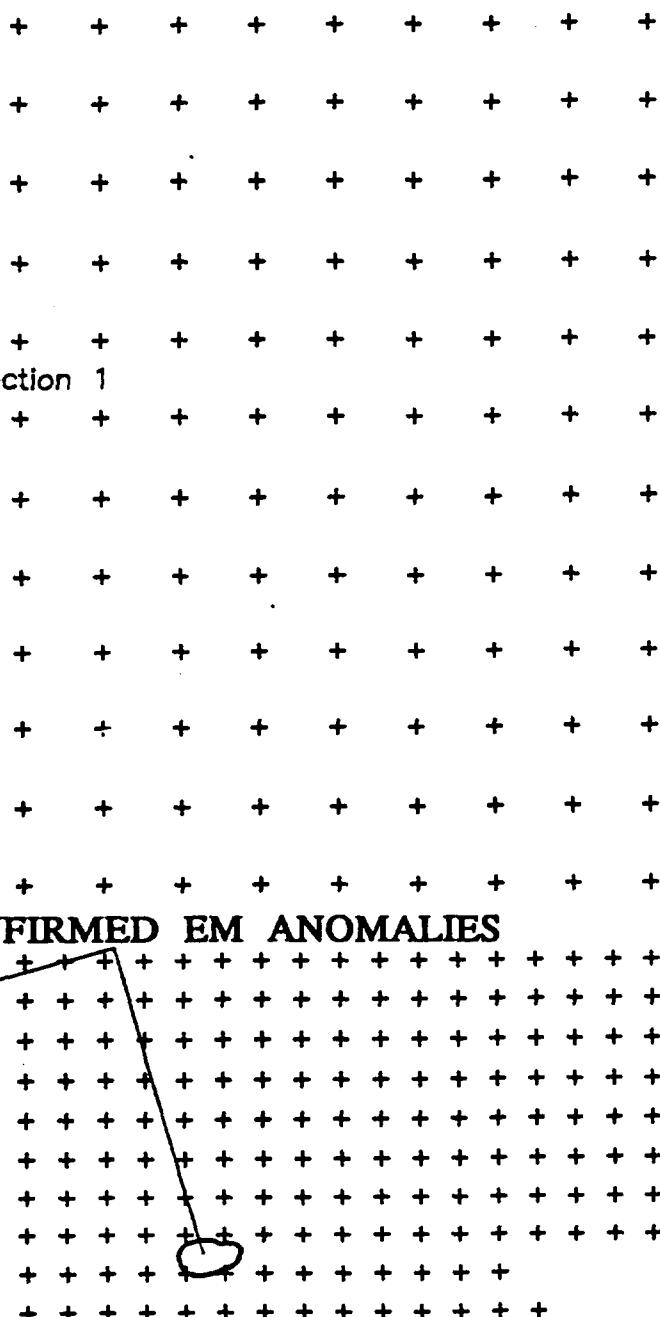
Figure 5 shows the results of the geophysical survey in Grid #1. This area is located immediately east of the area where two buried 55-gallon drums were excavated. Two anomalous areas were identified within this area and both of the anomalies had been previously identified by EM-31 surveys. These anomalies were staked and marked with flagging.

Figure 6 is a cross section of magnetic data over the westernmost confirmed EM anomaly. The cross section shows

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Location of Cross Section
Figure 6



0 25' 50'
SCALE

410 510 610

F E E T

SOURCE: PYRAMID ENVIRONMENTAL, 1992

Minimum Contour = 55200 Gammas
Contour Interval = 200 Gammas

DATE: 2/10/93

DRAWN BY: PDH

APPROVED BY: JDK

FIGURE 5

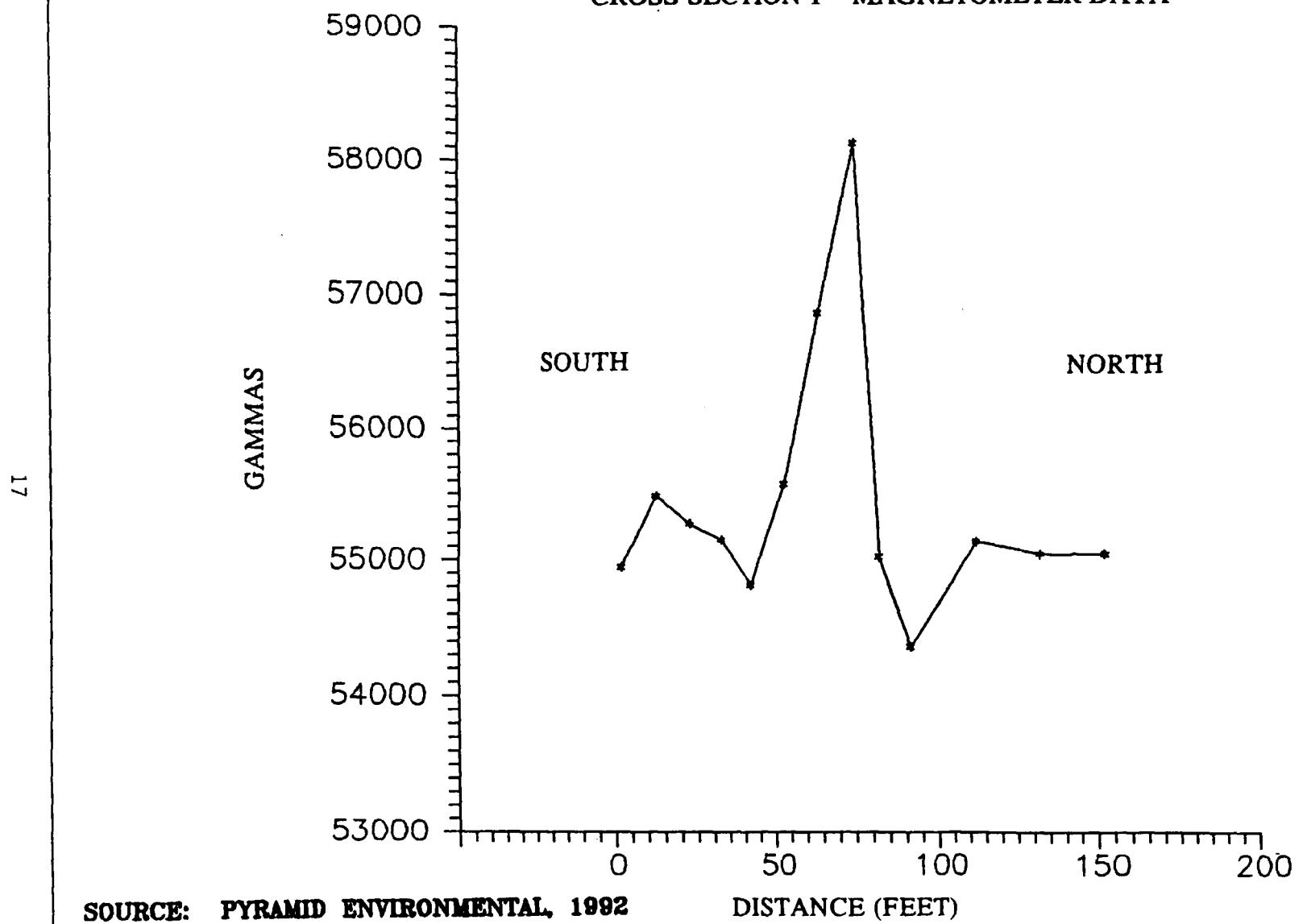
MAP GRID #1 - DETAIL

HATCHER-SAYRE, INC.

LEXINGTON, KY

CLIENT NO.: 0064-001

CROSS SECTION 1 - MAGNETOMETER DATA



SOURCE: PYRAMID ENVIRONMENTAL, 1992

DISTANCE (FEET)

68

0424

DATE: 2/10/93

DRAWN BY: PDH

APPROVED BY: JDK

FIGURE 6

CROSS SECTION 1 (20X, -40 TO 110Y)
CONFIRMED EM ANOMALY

HATCHER-SAYRE, INC.
LEXINGTON, KY

CLIENT NO.: 0064-001

a characteristically-paired magnetic high (south) and low (north).^{Q1.25}
The amplitude and shape of this anomaly indicate the presence of several drums (or similar size metallic objects) buried within three feet of the ground surface.

A third magnetic anomaly (Anomaly 3) is located immediately west of Grid #1. This anomaly is not located within an actual data grid, but it was identified by a traverse intended to survey the gap area between Grid #1 and Grid #2. This anomaly is relatively small in size (approximately 5 feet by 5 feet) and the maximum magnetic reading is approximately 300 gammas above background.

Grid #2

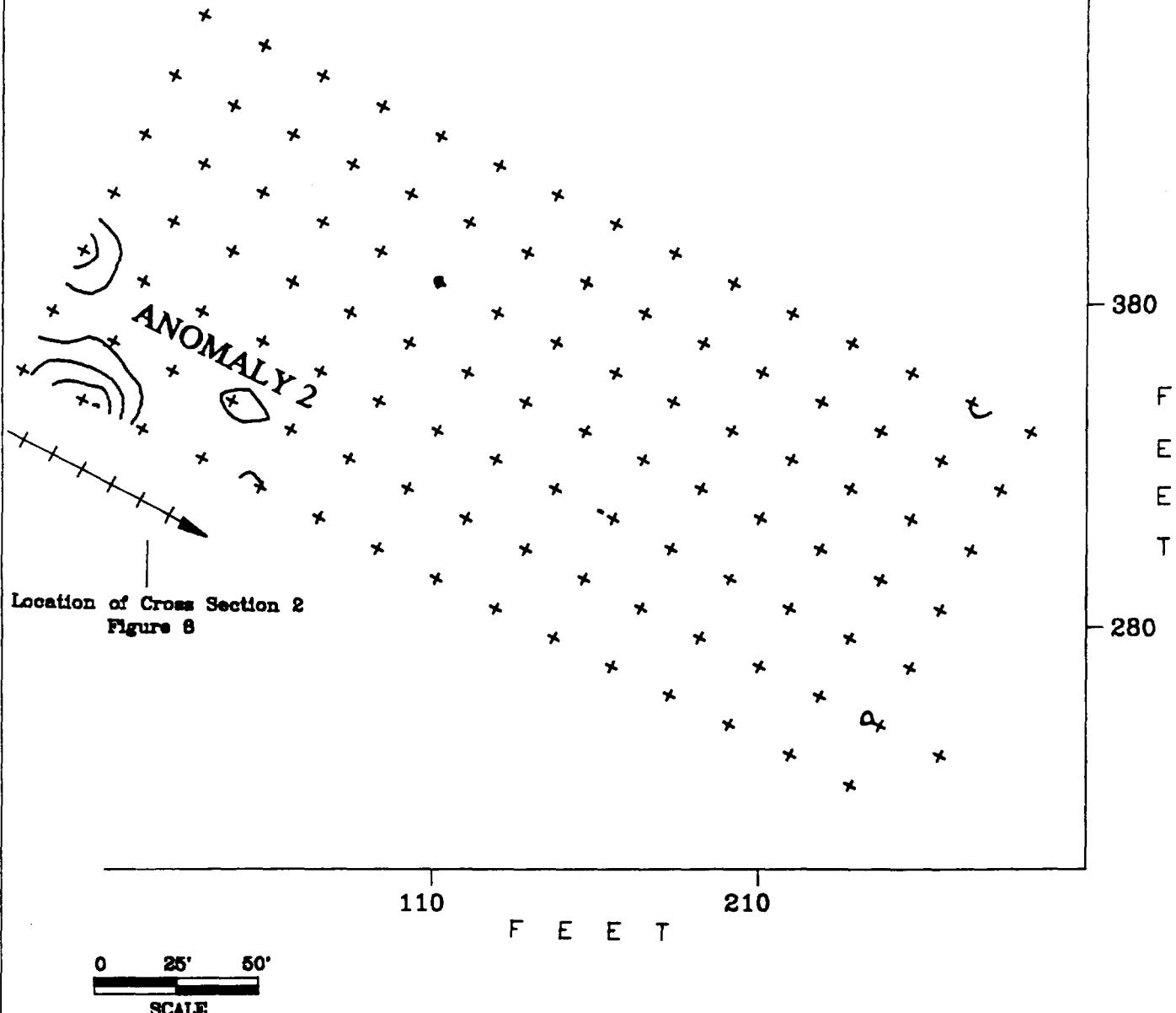
Grid #2 is located approximately 45 feet west of the two excavated drums referred to in the above section and extends approximately 280 feet west. The area includes a dirt road running approximately northwest-southeast across the southern portion of the Site. One significant anomaly (Anomaly 2) was identified within the grid. Figure 7 is a detailed map showing the results of the magnetic readings in the vicinity of this anomaly. The total identified anomalous area is approximately 60 feet by 30 feet and the maximum magnetic anomaly is approximately 3,000 gammas above background.

Figure 8 is a cross section of magnetic data over Anomaly 2. The relatively even ramp of increase and decrease of the anomaly over this area indicates that the metal objects detected are buried greater than 3 feet deep.

Grid #3 Through Grid #6

Grids #3 through #6 are located as shown on Figure 3. There

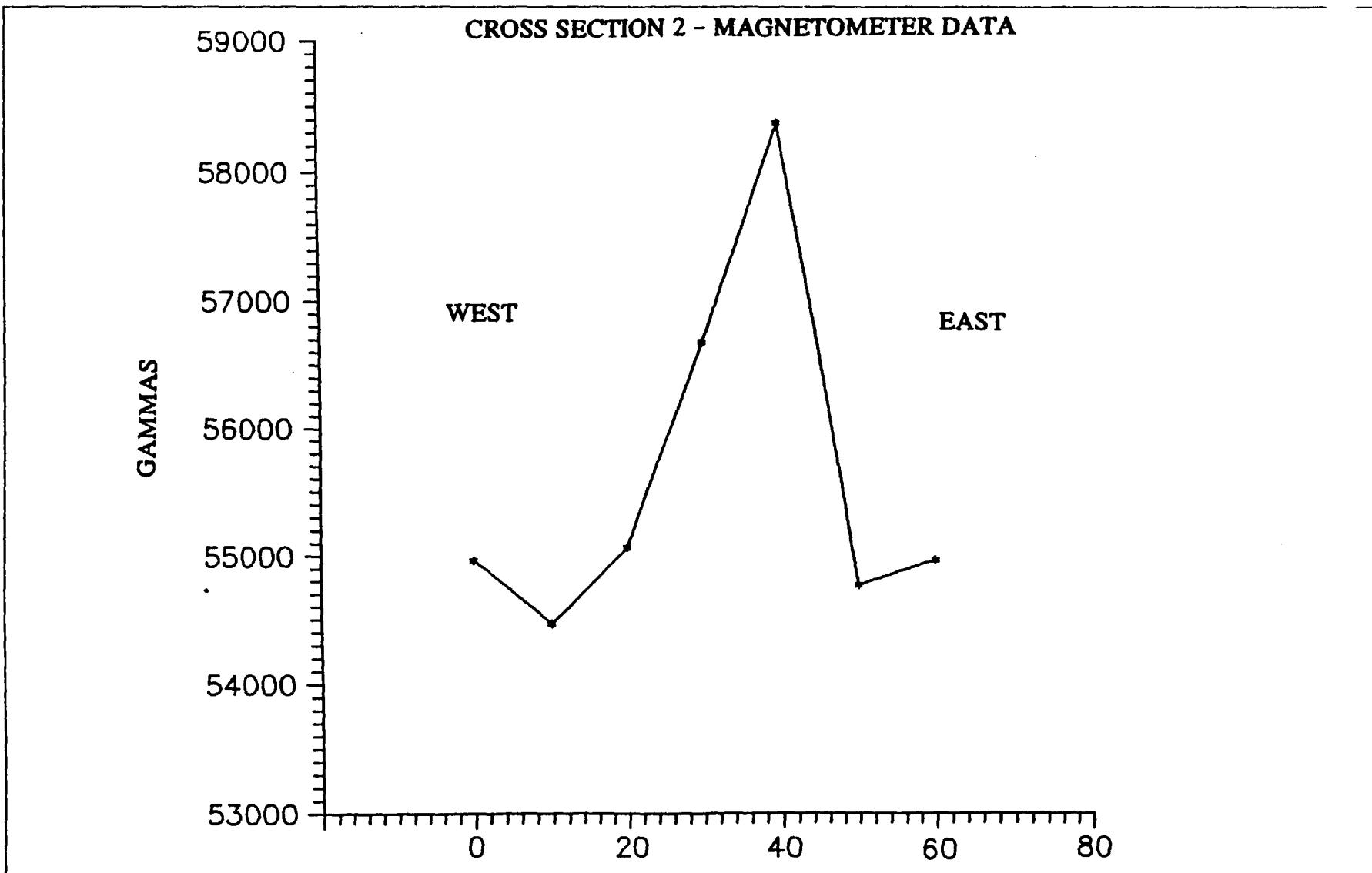
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SOURCE: PYRAMID ENVIRONMENTAL, 1992

Minimum Contour = 55200 Gammas
Contour Interval = 200 Gammas

DATE: 2/10/93	<p><u>FIGURE 7</u> ANOMALY 2 MAP GRID #2 - DETAIL</p>	HATCHER-SAYRE, INC. LEXINGTON, KY
DRAWN BY: PDH		
APPROVED BY: JDK		CLIENT NO.: 0084-001



SOURCE: PYRAMID ENVIRONMENTAL, 1992

DISTANCE (FEET)

68

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DATE: 2/10/93
DRAWN BY: PDH
APPROVED BY: JDK

FIGURE 8
CROSS SECTION 2 (0 TO 60X, -20Y)
ANOMALY 2

HATCHER-SAYRE, INC.
LEXINGTON, KY
CLIENT NO.: 0064-001

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were no significant magnetic anomalies noted within the boundaries of these grid areas.

Grid #7

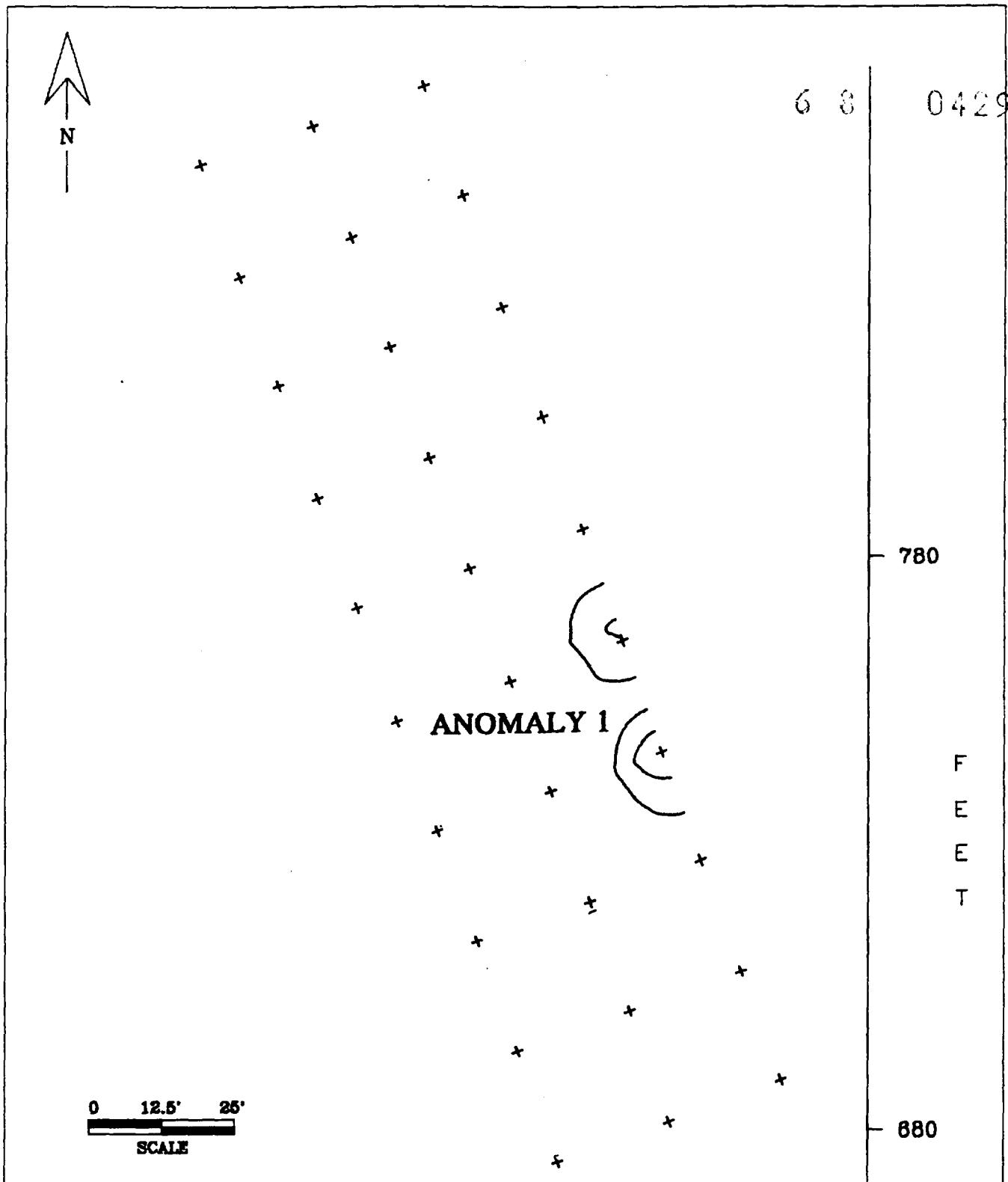
Grid #7 is located between the parking/decontamination area and an area of aeration activity. One magnetic anomaly (Anomaly 1) is located along the eastern border of the grid (Figure 9). The anomaly is approximately 40 feet by 20 feet in areal extent and the maximum magnetic anomaly is approximately 500 gammas below background.

Grid #8 Through Grid #10

Grids #8 through #10 are located as shown on Figure 3. There were no significant magnetic anomalies noted within the boundaries of these grid areas.

SUMMARY AND CONCLUSIONS

Geophysical surveys were undertaken at the Howe Valley Landfill following the discovery of drums during the construction of a drainage ditch on-site. Immediately following this discovery, an EM-31 conductivity meter was brought to the Site and surveys were initiated on a 10-foot grid system. A geophysical survey plan was prepared and submitted to EPA for its review and approval. EPA recommended an additional survey be conducted utilizing a proton precession magnetometer. Pyramid Environmental of Greensboro, North Carolina was contracted to conduct this survey. The survey was limited to select areas which did not interfere with the on-site pilot study.



SOURCE: PYRAMID ENVIRONMENTAL, 1992

Minimum Contour = 55200 Gammas
Contour Interval = 200 Gammas

DATE: 2/10/93	<u>FIGURE 9</u> MAP GRID #7 - DETAIL	HATCHER-SAYRE, INC. LEXINGTON, KY
DRAWN BY: PDH		
APPROVED BY: JDK		CLIENT NO.: 0064-001

In addition to confirming two previously identified EM anomalies, three other anomalies were described by the proton magnetometer survey. Of the proton magnetometer's three additional anomalies, Anomaly 1 corresponds to the EM Anomaly 3, Anomaly 2 to the EM Anomaly 18 and Anomaly 3 to the EM Anomaly 16. In addition to the five anomalies described by the proton precession magnetometer survey, an additional 39 anomalies were discovered by the more extensive EM-31 survey. Of the 44 total anomalies, 17 were zero-point EM anomalies and an additional 27 had readings of 3 or below. Four of the 17 zero-point anomalies were attributed to the on-site culverts in the drainage ditches. The remaining 40 locations were investigated in accordance with the "Revised Investigation and Handling of Drums" Work Plan. The findings of the investigation are appended as Attachment 1.

All areas which were unavailable to the surveys due to excavation and treatment will be investigated following the completion of these activities. Additionally, each area which indicated an anomaly will be resurveyed with the EM-31 following the excavation and removal activities.

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INVESTIGATION OF GEOPHYSICAL ANOMALIES

**HOWE VALLEY LANDFILL
HARDIN COUNTY, KENTUCKY
INVESTIGATION OF GEOPHYSICAL ANOMALIES**

ANOMALY 1

Location: 185X, 900Y

Contents revealed after excavation: 1 5-gallon bucket; several pieces of metallic debris (lids, rings and unidentifiable pieces of metal)

ANOMALY 2

Location: 145X, 830Y

Contents revealed after excavation: several pieces of metallic debris

ANOMALY 3

Location: 245X, 755Y

Contents revealed during excavation: 77 55-gallon drums; 5 5-gallon drums; several pieces of metallic debris

ANOMALY 4

Location: 285X, 755Y

Contents: 1 16" corrugated culvert pipe

ANOMALY 5

Location: 415X, 675Y

Contents revealed during excavation: 1 55-gallon drum - crushed, dry and empty; several 5-gallon bucket lids in close proximity to the crushed drum

ANOMALY 6

Location: 165X, 635Y

Contents revealed after excavation: 2 5-gallon buckets; several pieces of metallic debris

ANOMALY 7

Location: 265X, 635Y

Contents: 1 16" corrugated culvert pipe

ANOMALY 8

Location: 375X, 615Y

Contents revealed after excavation: 4 55-gallon drum parts, rusted and empty; 6 55-gallon lids and 1 ring; 10 5-gallon buckets and 1 lid; 1 1-pint can; blue-green material; and cured silicone debris

ANOMALY 9

Location: 450X, 575Y

Contents revealed after excavation: 2 55-gallon drum lids and rings

ANOMALY 10

Location: 85X, 585Y

Contents revealed after excavation: black and blue-green material; several pieces of metallic debris; apparent remnants of pallets

ANOMALY 11

Location: 120X, 490Y

Contents revealed after excavation: several pieces of metallic debris and trash

ANOMALY 12

Location: 80X, 470Y

Contents: 1 16" corrugated culvert pipe

ANOMALY 13

Location: 70X, 320Y

Contents revealed after excavation: metallic debris; concrete slab and ferric minerals

ANOMALY 14

Location: 195X, 285Y

Contents revealed after excavation: 2 metal overpack drum lids; several pieces of metallic debris

ANOMALY 15

Location: 275X, 285Y

Contents: 1 16" corrugated culvert pipe

ANOMALY 16

Location: 335X, 300Y

Contents revealed during excavation: 90 55-gallon drums; 11 5-gallon buckets; 1 35-gallon drum; several pieces of metallic, cured silicone and plastic debris

ANOMALY 17

Location: 480X, 280Y

Contents revealed after excavation: several pieces of metallic debris and trash

ANOMALY 18

Location: 10X, 340Y

Contents revealed during excavation: one short (3-4') piece of railroad track

ANOMALY 19

Location: 315X, 340Y

Contents revealed during excavation: 2 55-gallon drums; several 5-gallon buckets; 1-pint cans; pieces of metallic debris and plastic and cured silicone debris

ANOMALY 20

Location: 460X, 415Y

Contents revealed after excavation: 3 55-gallon drum lids; 1 5-gallon bucket and 2 lids; 4 1-gallon buckets; 4 1-pint cans; and 1 spray can

ANOMALY 21

Location: 405X, 545Y

Contents revealed after excavation: 9 55-gallon drum lids; 2 5-gallon buckets; 1 1-gallon bucket; and 1 small silicone tube

ANOMALY 22

Location: 530X, 330Y

Contents revealed after excavation: no debris found; bedrock at 2 feet

ANOMALY 23

Location: 400X, 260Y

Contents revealed after excavation: 9 55-gallon drum lids; 3 55-gallon empty drum parts and rings; 1 5-gallon bucket lid; 3 pint cans; red crystalline material (less than 4 ounces); and numerous caulking tubes

ANOMALY 24

Location: 215X 595Y

Contents revealed after excavation: no debris found; bedrock at 1.5 feet

ANOMALY 25

Location: 245X, 595Y

Contents revealed after excavation: no debris found; bedrock at 2 feet

ANOMALY 26

Location: 315X, 665Y

Contents revealed after excavation: 4 55-gallon drum lids and rings; 4 5-gallon buckets and 1 lid; 2 1-gallon buckets; and cured silicone debris

ANOMALY 27

Location: 490X, 765Y

Contents revealed after excavation: small piece of barbed wire

ANOMALY 28

Location: 455X, 645Y

Contents revealed after excavation: no debris found; bedrock at 8 feet

ANOMALY 29

Location: 125X, 535Y

Contents revealed after excavation: no metallic debris found, only cured silicone debris; bedrock at 2 feet

ANOMALY 30

Location: 135X, 705Y

Decontamination pit area will be excavated during RA

ANOMALY 31

Location: 170X, 420Y

Contents revealed after excavation: several pieces of metallic debris and trash

ANOMALY 32

Location: 165X, 595Y

Contents revealed after excavation: black and blue-green material; several pieces of metallic debris

ANOMALY 33

Location: 90X, 510Y

Contents revealed during excavation: 3 5-gallon buckets; several 1-gallon buckets; 1-pint cans and pieces of metallic debris and trash; and cured silicone debris

ANOMALY 34

Location: 385X, 815Y

Contents revealed during excavation: several pieces of metallic debris and plastic lids; black and blue-green material; black material containing trace amounts of metallic fragments

ANOMALY 35

Location: 145X, 900Y

Contents revealed after excavation: several pieces of metallic debris

ANOMALY 36

Location: 275X, 960Y

Contents revealed after excavation: shallow bedrock; several pieces of metallic debris visible on ground surface

ANOMALY 37

Location: 220X, 310Y

Contents revealed after excavation: metallic debris

ANOMALY 38

Location: 155X, 285Y

Contents revealed after excavation: no metallic debris found; bedrock at 3 feet

ANOMALY 39

Location: 560X, 375Y

Contents revealed after excavation: 2 1-quart cans

ANOMALY 40

Location: 395X, 785Y

Contents revealed after excavation: black and green material; plastic lids and metallic debris (lids and rings)

ANOMALY 41

Location: 285X, 575Y

Contents revealed after excavation: metallic debris; cured silicone debris; and 1 55-gallon lid

ANOMALY 42

Location: 475X, 735Y

Contents revealed after excavation: no debris found; bedrock at 4 feet

ANOMALY 43

Location: 185X, 255Y

Contents revealed after excavation: no metallic debris found; bedrock at 3 feet

ANOMALY 44

Location: 90X, 490Y

Contents revealed after excavation: no metallic debris found; bedrock at 1.5 feet

ATTACHMENT 2

6 8 0439

6 8 0 4 4 0

EM SURVEY DATA

* ATTACHMENT 2 *
* EM-31 SURVEY DATA *
* COORDINATES *

X	Y	Z (MILLIMHOS/M)
-70	420	20
-70	410	24
-70	400	25
-70	390	27
-70	380	29
-70	370	26
-70	360	19
-70	350	14
-60	420	14
-60	410	21
-60	400	22
-60	390	27
-60	380	28
-60	370	28
-60	360	21
-60	350	14
-50	420	10
-50	410	16
-50	400	18
-50	390	25
-50	380	28
-50	370	32
-50	360	26
-50	350	16
-40	420	10
-40	410	15
-40	400	16
-40	390	22
-40	380	26
-40	370	30
-40	360	28
-40	350	19
-30	420	8
-30	410	12
-30	400	14
-30	390	18
-30	380	24
-30	370	27
-30	360	28
-30	350	24

X

Y

Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)		
-30	340	13	6	8
-30	330	14	0	442
-30	320	13		
-20	420	6		
-20	410	9		
-20	400	14		
-20	390	18		
-20	380	20		
-20	370	26		
-20	360	26		
-20	350	28		
-20	340	27		
-20	330	18		
-20	320	14		
-20	310	12		
-10	420	6		
-10	410	9		
-10	400	13		
-10	380	15		
-10	370	21		
-10	360	24		
-10	350	28		
-10	340	32		
-10	330	23		
-10	320	22		
-10	310	13		
0	420	6		
0	410	9		
0	400	11		
0	390	13		
0	380	13		
0	370	21		
0	360	24		
0	350	29		
0	340	35		
0	330	36		
0	320	23		
0	310	15		
10	420	6		
10	410	7		
10	400	14		
10	390	12		
10	380	13		
10	370	20		
10	360	23		
10	350	26		
10	340	30		
10	330	37		
10	320	29		
10	310	18		

X	Y	Z (MILLIMHOS/M)
		6 8 0 4 4 3
10	300	15
10	290	19
15	845	17
15	835	18
15	825	14
15	815	17
15	805	15
15	795	16
15	785	15
15	775	18
15	765	20
15	755	23
15	745	23
15	735	24
15	725	22
15	715	22
15	705	21
15	695	23
15	685	33
15	645	23
15	635	15
15	625	15
15	615	18
15	605	16
15	595	16
15	585	12
15	575	17
15	565	8
15	555	10
15	545	13
15	295	14
15	285	14
15	275	14
15	265	14
15	255	13
15	245	14
20	480	7
20	470	5
20	440	6
20	430	4
20	420	6
20	410	8
20	400	12
20	390	13
20	380	13
20	370	15
20	360	23
20	350	30
20	340	31
20	330	32

X Y Z (MILLIMHOS/M)

			6 8 0444
20	320	33	
20	310	32	
20	300	21	
20	290	16	
20	280	15	
25	845	14	
25	835	15	
25	825	14	
25	815	16	
25	805	15	
25	795	14	
25	785	13	
25	775	17	
25	765	19	
25	755	32	
25	745	18	
25	735	19	
25	725	25	
25	715	25	
25	705	20	
25	695	22	
25	685	22	
25	675	28	
25	665	23	
25	655	23	
25	645	21	
25	625	17	
25	615	28	
25	605	19	
25	595	13	
25	585	18	
25	575	18	
25	565	11	
25	555	9	
25	545	12	
25	535	9	
25	295	13	
25	285	14	
25	275	16	
25	265	12	
25	255	15	
25	245	14	
30	480	6	
30	470	5	
30	440	7	
30	430	6	
30	420	6	
30	410	6	
30	400	8	
30	390	7	

X	Y	Z (MILLIMHOS/M)		
30	380	12	6	8
30	370	16		0445
30	360	22		
30	350	26		
30	340	29		
30	330	31		
30	320	32		
30	310	32		
30	300	25		
30	290	15		
30	280	18		
35	845	16		
35	835	15		
35	825	14		
35	815	15		
35	805	13		
35	795	14		
35	785	12		
35	775	16		
35	765	15		
35	755	19		
35	745	20		
35	735	20		
35	725	21		
35	715	22		
35	705	20		
35	695	21		
35	685	21		
35	675	21		
35	665	20		
35	655	19		
35	645	19		
35	635	16		
35	625	20		
35	535	10		
35	295	22		
35	285	16		
35	275	18		
35	265	11		
35	255	16		
35	245	14		
40	510	7		
40	480	7		
40	470	4		
40	460	4		
40	450	6		
40	440	4		
40	430	6		
40	420	7		
40	410	8		

X	Y	Z (MILLIMHOS/M)		
40	400	7		
40	390	8	6	8
40	380	10		0446
40	370	9		
40	360	15		
40	350	21		
40	340	23		
40	330	30		
40	320	32		
40	310	33		
40	300	31		
40	290	23		
40	280	21		
45	845	14		
45	835	14		
45	825	13		
45	815	13		
45	805	12		
45	795	13		
45	785	11		
45	775	12		
45	765	13		
45	755	15		
45	745	15		
45	735	18		
45	725	18		
45	715	16		
45	705	18		
45	695	22		
45	685	24		
45	675	20		
45	665	19		
45	655	18		
45	645	20		
45	635	21		
45	625	24		
45	585	12		
45	295	29		
45	285	21		
45	275	21		
45	265	20		
45	255	15		
45	245	16		
50	510	6		
50	500	5		
50	490	6		
50	480	7		
50	470	5		
50	460	4		
50	450	5		

X	Y	Z (MILLIMHOS/M)	
50	440	6	6 8 0447
50	430	5	
50	420	7	
50	410	8	
50	400	12	
50	390	11	
50	380	11	
50	370	13	
50	360	14	
50	350	21	
50	340	22	
50	330	26	
50	320	29	
50	310	33	
50	300	32	
50	290	30	
50	280	25	
55	870	10	
55	860	9	
55	850	10	
55	845	8	
55	840	10	
55	835	8	
55	830	9	
55	825	10	
55	815	10	
55	805	10	
55	795	12	
55	785	12	
55	775	14	
55	765	14	
55	755	18	
55	745	18	
55	735	17	
55	725	18	
55	715	22	
55	705	16	
55	695	22	
55	685	23	
55	675	19	
55	665	20	
55	655	18	
55	645	17	
55	635	19	
55	625	21	
55	585	15	
55	575	13	
55	295	32	
55	285	23	
55	275	19	

X	Y	Z (MILLIMHOS/M)		
55	265	15	C	0448
55	255	16		
55	245	17		
60	510	5		
60	500	5		
60	490	6		
60	480	6		
60	470	6		
60	460	6		
60	450	8		
60	440	7		
60	430	6		
60	420	10		
60	410	12		
60	400	11		
60	390	9		
60	380	15		
60	370	13		
60	360	12		
60	350	14		
60	340	16		
60	330	29		
60	320	34		
60	310	34		
60	300	31		
60	290	30		
60	280	19		
65	880	6		
65	870	6		
65	860	7		
65	850	8		
65	845	10		
65	840	8		
65	835	9		
65	830	9		
65	825	8		
65	815	9		
65	805	8		
65	795	8		
65	785	11		
65	775	11		
65	765	10		
65	755	14		
65	745	11		
65	735	15		
65	725	17		
65	715	16		
65	705	18		
65	695	19		
65	685	18		

X Y Z (MILLIMHOS/M)

			6	8	0449
65	675	20			
65	665	17			
65	655	17			
65	645	17			
65	635	17			
65	595	11			
65	585	9			
65	575	11			
65	295	31			
65	285	17			
65	275	11			
65	265	21			
65	255	14			
65	245	13			
70	520	7			
70	510	6			
70	500	5			
70	490	5			
70	480	5			
70	470	7			
70	460	8			
70	450	8			
70	440	8			
70	430	10			
70	420	10			
70	410	8			
70	400	11			
70	390	18			
70	380	12			
70	370	16			
70	360	13			
70	350	13			
70	340	15			
70	330	0			
70	320	0			
70	310	0			
70	300	36			
70	290	29			
70	280	15			
75	980	16			
75	970	15			
75	960	14			
75	950	14			
75	940	12			
75	930	8			
75	920	8			
75	910	6			
75	900	7			
75	890	5			
75	880	5			

X	Y	Z (MILLIMHOS/M)
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75	870	6
75	860	8
75	850	9
75	845	8
75	840	8
75	835	9
75	830	8
75	825	7
75	815	8
75	805	9
75	795	8
75	785	9
75	775	9
75	765	10
75	755	12
75	745	10
75	735	13
75	725	15
75	715	15
75	705	15
75	695	18
75	685	21
75	675	21
75	665	19
75	655	16
75	645	16
75	635	20
75	595	11
75	585	10
75	575	10
75	295	34
75	285	27
75	275	16
75	265	14
75	255	16
75	245	14
80	530	8
80	520	6
80	510	4
80	500	4
80	490	5
80	480	6
80	470	0
80	460	4
80	450	5
80	440	6
80	430	8
80	420	8
80	410	8
80	400	12

X Y Z (MILLIMHOS/M)

80	390	12	6	8	0451
80	380	15			
80	370	9			
80	360	20			
80	350	18			
80	300	42			
80	290	28			
80	280	26			
85	980	16			
85	970	15			
85	960	14			
85	950	12			
85	940	12			
85	930	8			
85	920	8			
85	910	6			
85	900	5			
85	890	6			
85	880	5			
85	870	7			
85	860	7			
85	850	7			
85	845	7			
85	840	8			
85	835	6			
85	830	9			
85	825	9			
85	815	9			
85	805	9			
85	795	7			
85	785	8			
85	775	10			
85	765	10			
85	755	10			
85	745	9			
85	735	13			
85	725	15			
85	715	15			
85	705	18			
85	695	17			
85	685	20			
85	675	17			
85	665	16			
85	655	15			
85	645	17			
85	605	7			
85	595	5			
85	585	0			
85	575	4			
85	565	10			

X Y Z (MILLIMHOS/M)

85	295	25	6	8	0452
85	285	22			
85	275	13			
85	265	16			
85	255	14			
85	245	14			
90	530	8			
90	520	7			
90	510	3			
90	495	14			
90	490	3			
90	480	5			
90	470	7			
90	460	6			
90	450	4			
90	440	8			
90	430	8			
90	420	7			
90	410	8			
90	400	9			
90	390	11			
90	380	14			
90	370	12			
90	360	14			
90	350	20			
90	300	35			
90	290	23			
90	280	26			
95	980	13			
95	970	16			
95	960	16			
95	950	14			
95	940	9			
95	930	9			
95	920	8			
95	910	5			
95	900	4			
95	890	7			
95	880	4			
95	870	6			
95	860	7			
95	850	8			
95	845	5			
95	840	6			
95	835	8			
95	830	4			
95	825	5			
95	815	5			
95	805	7			
95	795	8			

X	Y	Z (MILLIMHOS/M)		
95	785	8	6	8
95	775	7		0453
95	765	8		
95	755	9		
95	745	11		
95	735	9		
95	725	11		
95	695	20		
95	685	14		
95	675	13		
95	665	14		
95	655	15		
95	645	14		
95	615	14		
95	605	12		
95	595	11		
95	585	11		
95	575	8		
95	565	11		
95	555	9		
95	545	10		
95	295	24		
95	285	23		
95	275	25		
95	265	9		
95	255	17		
95	245	15		
100	530	8		
100	520	8		
100	500	18		
100	490	4		
100	480	10		
100	470	9		
100	460	9		
100	450	13		
100	440	8		
100	430	7		
100	420	8		
100	410	7		
100	400	8		
100	390	7		
100	380	11		
100	370	10		
100	360	12		
100	350	10		
100	340	16		
100	300	21		
100	290	20		
100	280	22		
105	980	18		

X	Y	Z (MILLIMHOS/M)			
105	970	14	6	8	0454
105	960	14			
105	950	14			
105	940	10			
105	930	12			
105	920	10			
105	910	4			
105	900	6			
105	890	5			
105	880	6			
105	870	8			
105	860	6			
105	850	7			
105	845	5			
105	840	6			
105	835	6			
105	830	7			
105	825	7			
105	815	8			
105	805	6			
105	795	6			
105	785	7			
105	775	6			
105	765	7			
105	755	7			
105	745	9			
105	735	9			
105	725	10			
105	695	20			
105	685	16			
105	675	10			
105	665	10			
105	655	12			
105	645	13			
105	615	10			
105	605	8			
105	595	10			
105	585	9			
105	575	9			
105	565	8			
105	555	9			
105	545	13			
105	535	13			
105	295	21			
105	285	18			
105	275	20			
105	265	11			
105	255	15			
105	245	16			
110	530	9			

X Y Z (MILLIMHOS/M)

110	510	17	6	8	0455
110	500	4			
110	490	4			
110	480	14			
110	470	10			
110	460	10			
110	450	9			
110	440	8			
110	430	7			
110	420	4			
110	410	13			
110	400	8			
110	390	6			
110	380	8			
110	370	12			
110	360	9			
110	350	10			
110	340	22			
110	300	21			
110	290	20			
110	280	19			
110	270	19			
110	260	15			
115	980	16			
115	970	16			
115	960	14			
115	950	14			
115	940	10			
115	930	9			
115	920	8			
115	910	4			
115	900	7			
115	890	8			
115	880	6			
115	870	6			
115	860	6			
115	850	6			
115	845	1			
115	840	6			
115	835	4			
115	830	6			
115	825	4			
115	815	7			
115	805	5			
115	795	5			
115	785	5			
115	775	7			
115	765	6			
115	755	6			
115	745	7			

X Y Z (MILLIMHOS/M)

115	735	9		
115	725	7	6	8
115	715	7		0456
115	705	6		
115	695	16		
115	685	8		
115	675	9		
115	665	9		
115	655	8		
115	595	7		
115	585	6		
115	575	9		
115	565	8		
115	555	10		
115	545	15		
115	535	7		
115	295	18		
115	285	17		
115	275	16		
115	265	32		
115	255	9		
115	245	17		
120	520	17		
120	510	21		
120	500	10		
120	490	0		
120	480	11		
120	470	13		
120	460	10		
120	450	10		
120	440	8		
120	430	7		
120	420	7		
120	410	8		
120	400	8		
120	390	7		
120	380	10		
120	370	8		
120	360	10		
120	350	12		
120	340	7		
120	300	13		
120	290	17		
120	280	13		
120	270	16		
120	260	17		
125	980	15		
125	970	14		
125	960	12		
125	950	12		

X Y Z (MILLIMHOS/M)

125	940	10	6	8	0457
125	930	10			
125	920	8			
125	910	4			
125	900	7			
125	890	6			
125	880	4			
125	870	5			
125	860	6			
125	850	6			
125	845	4			
125	840	6			
125	835	5			
125	830	6			
125	825	5			
125	815	4			
125	805	4			
125	795	5			
125	785	5			
125	775	5			
125	765	6			
125	755	5			
125	745	5			
125	735	7			
125	725	8			
125	715	8			
125	705	6			
125	695	16			
125	685	8			
125	675	7			
125	665	8			
125	655	7			
125	645	7			
125	635	7			
125	595	7			
125	585	9			
125	575	9			
125	565	12			
125	555	12			
125	545	16			
125	535	2			
125	295	13			
125	285	10			
125	275	13			
125	265	14			
125	255	14			
125	245	15			
130	520	17			
130	510	16			
130	500	16			

X	Y	Z (MILLIMHOS/M)			
130	490	16	6	8	0458
130	480	14			
130	470	12			
130	460	12			
130	450	10			
130	440	9			
130	430	9			
130	420	9			
130	410	9			
130	400	8			
130	390	9			
130	380	8			
130	370	9			
130	360	10			
130	350	10			
130	340	6			
130	330	8			
130	300	11			
130	290	10			
130	280	11			
130	270	13			
130	260	14			
135	980	10			
135	970	9			
135	960	10			
135	950	6			
135	940	5			
135	930	9			
135	920	8			
135	910	4			
135	900	6			
135	890	4			
135	880	5			
135	870	7			
135	860	4			
135	850	6			
135	845	4			
135	840	5			
135	835	6			
135	830	8			
135	825	4			
135	815	3			
135	805	5			
135	795	4			
135	785	5			
135	775	4			
135	765	7			
135	755	4			
135	745	6			
135	735	7			

X	Y	Z (MILLIMHOS/M)		
135	725	9	6	8
135	715	6		0459
135	705	3		
135	695	7		
135	685	4		
135	675	7		
135	635	6		
135	595	5		
135	585	9		
135	575	13		
135	565	9		
135	555	13		
135	545	12		
135	535	4		
135	295	8		
135	285	9		
135	275	10		
135	265	10		
135	255	8		
135	245	10		
140	530	16		
140	520	15		
140	510	15		
140	500	14		
140	490	14		
140	480	15		
140	470	13		
140	460	11		
140	450	12		
140	440	10		
140	430	10		
140	420	9		
140	410	10		
140	400	11		
140	390	12		
140	380	9		
140	370	9		
140	360	8		
140	350	7		
140	340	11		
140	330	5		
140	300	7		
140	290	9		
140	280	9		
140	270	10		
140	260	11		
145	980	10		
145	970	8		
145	960	6		
145	950	6		

X	Y	Z (MILLIMHOS/M)
145	940	4
145	930	6
145	920	8
145	910	4
145	900	2
145	890	4
145	880	4
145	870	7
145	860	6
145	850	3
145	845	5
145	840	6
145	835	5
145	830	0
145	825	4
145	815	4
145	805	4
145	795	3
145	785	3
145	775	5
145	765	4
145	755	4
145	745	5
145	735	9
145	725	5
145	715	4
145	705	9
145	695	7
145	685	5
145	675	6
145	665	5
145	655	5
145	645	6
145	635	0
145	595	6
145	585	7
145	575	9
145	565	14
145	555	9
145	545	7
145	295	5
145	285	6
145	275	6
145	265	7
145	255	6
145	245	8
150	550	6
150	540	11
150	530	13
150	520	14

X	Y	Z (MILLIMHOS/M)
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150	510	16
150	500	14
150	490	16
150	480	12
150	470	14
150	460	12
150	450	11
150	440	13
150	430	12
150	420	11
150	410	11
150	400	10
150	390	12
150	380	9
150	370	10
150	360	10
150	350	9
150	340	9
150	330	6
150	320	5
150	300	6
150	290	6
150	280	7
150	270	7
150	260	10
155	980	8
155	970	7
155	960	5
155	950	6
155	940	4
155	930	5
155	920	6
155	910	6
155	900	4
155	890	4
155	880	4
155	870	6
155	860	4
155	850	4
155	845	2
155	840	2
155	835	4
155	830	6
155	825	5
155	815	4
155	805	3
155	795	4
155	785	3
155	775	5
155	765	5

X	Y	Z (MILLIMHOS/M)
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X	Y	Z (MILLIMHOS/M)
155	755	6
155	745	4
155	735	8
155	725	7
155	715	5
155	705	8
155	695	6
155	685	4
155	675	4
155	665	4
155	655	5
155	645	4
155	635	3
155	595	7
155	585	10
155	575	11
155	565	10
155	555	7
155	295	4
155	285	3
155	275	4
155	265	5
155	255	7
155	245	9
160	560	13
160	550	12
160	540	12
160	530	12
160	520	8
160	510	11
160	500	8
160	490	12
160	480	12
160	470	15
160	460	22
160	450	14
160	440	15
160	430	2
160	420	2
160	410	5
160	400	6
160	390	8
160	380	11
160	370	9
160	360	10
160	350	9
160	340	8
160	330	9
160	320	4
160	310	8

X Y Z (MILLIMHOS/M)

165	980	7
165	970	6
165	960	6
165	950	4
165	940	4
165	930	4
165	920	4
165	910	5
165	900	6
165	890	6
165	880	4
165	870	6
165	860	5
165	850	5
165	845	5
165	840	3
165	835	4
165	830	4
165	825	4
165	815	4
165	805	4
165	795	4
165	785	4
165	775	6
165	765	7
165	755	5
165	745	5
165	735	8
165	725	7
165	715	6
165	705	5
165	695	5
165	685	5
165	675	5
165	665	4
165	655	5
165	645	3
165	635	0
165	595	4
165	585	9
165	575	7
165	565	6
165	295	6
165	285	4
165	275	5
165	265	5
165	255	7
165	245	8
170	570	10
170	560	14

6 8 0 4 6 3

X	Y	Z (MILLIMHOS/M)
170	550	12
170	540	14
170	530	12
170	520	14
170	510	13
170	500	16
170	490	16
170	480	15
170	470	11
170	460	15
170	450	14
170	440	8
170	430	10
170	420	1
170	410	4
170	400	6
170	390	14
170	380	14
170	370	13
170	360	15
170	350	11
170	340	8
170	330	6
170	320	6
170	310	4
175	970	6
175	960	4
175	950	4
175	940	5
175	930	4
175	920	4
175	910	3
175	900	2
175	890	4
175	880	5
175	870	6
175	860	4
175	850	4
175	845	4
175	840	4
175	835	4
175	830	4
175	825	4
175	815	4
175	805	4
175	795	5
175	785	5
175	775	5
175	765	7
175	755	6

X	Y	Z (MILLIMHOS/M)
175	745	6
175	735	9
175	725	7
175	715	6
175	705	5
175	695	6
175	685	5
175	675	5
175	665	4
175	655	5
175	645	5
175	635	4
175	595	7
175	585	8
175	575	6
175	295	6
175	285	4
175	275	6
175	265	6
175	255	6
175	245	8
180	580	12
180	570	11
180	560	14
180	550	13
180	540	15
180	530	15
180	520	15
180	510	16
180	500	16
180	490	18
180	480	16
180	470	10
180	460	11
180	450	13
180	440	14
180	430	14
180	410	3
180	400	7
180	390	13
180	380	11
180	370	14
180	360	12
180	350	13
180	340	10
180	330	5
180	320	6
180	310	4
185	970	4
185	960	4

X

Y

Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)
185	950	4
185	940	3
185	930	5
185	920	2
185	910	6
185	900	0
185	890	0
185	880	4
185	870	4
185	860	4
185	850	4
185	845	3
185	840	4
185	835	4
185	830	4
185	825	4
185	815	4
185	805	4
185	795	7
185	785	7
185	775	9
185	765	9
185	755	7
185	745	8
185	735	8
185	725	6
185	715	6
185	705	6
185	695	5
185	685	5
185	675	5
185	665	5
185	655	5
185	645	3
185	635	6
185	595	7
185	585	4
185	295	6
185	285	7
185	275	5
185	265	6
185	255	3
185	245	9
190	580	12
190	570	16
190	560	15
190	550	18
190	540	14
190	530	16
190	520	18

X	Y	Z (MILLIMHOS/M)
190	510	16
190	500	19
190	490	15
190	480	14
190	470	17
190	460	14
190	450	14
190	440	14
190	430	14
190	420	16
190	410	3
190	400	8
190	390	14
190	380	14
190	370	13
190	360	13
190	350	13
190	340	10
190	330	10
190	320	8
190	310	8
195	960	4
195	950	3
195	940	3
195	930	3
195	920	6
195	910	4
195	900	4
195	890	4
195	880	5
195	870	5
195	860	4
195	850	4
195	845	4
195	840	5
195	835	6
195	830	5
195	825	5
195	815	5
195	805	6
195	795	9
195	785	9
195	775	12
195	765	7
195	755	9
195	745	8
195	735	7
195	725	8
195	715	7
195	705	5

X Y Z (MILLIMHOS/M)

6 8 0468

195	695	6
195	685	6
195	675	5
195	665	5
195	655	6
195	645	6
195	635	6
195	625	6
195	615	6
195	605	7
195	595	8
195	585	4
195	295	7
195	285	0
195	275	5
195	265	5
195	255	5
195	245	6
200	590	10
200	580	12
200	570	12
200	560	12
200	550	17
200	540	14
200	530	16
200	520	15
200	510	15
200	500	12
200	490	15
200	480	16
200	470	16
200	460	18
200	450	14
200	440	15
200	430	14
200	420	16
200	410	17
200	400	7
200	390	12
200	380	14
200	370	16
200	360	16
200	350	16
200	340	12
200	330	12
200	320	8
200	310	5
205	960	3
205	950	4
205	940	4

X	Y	Z (MILLIMHOS/M)
205	930	6
205	920	26 8
205	910	8
205	900	6
205	890	5
205	880	6
205	870	6
205	860	7
205	850	5
205	845	2
205	840	6
205	835	6
205	830	7
205	825	6
205	815	8
205	805	9
205	795	11
205	785	8
205	775	8
205	765	14
205	755	10
205	745	10
205	735	9
205	725	8
205	715	8
205	705	6
205	695	7
205	685	6
205	675	6
205	665	6
205	655	7
205	645	6
205	635	7
205	625	8
205	615	7
205	605	9
205	595	5
205	295	3
205	285	3
205	275	7
205	265	5
205	255	4
205	245	8
210	590	11
210	580	12
210	570	13
210	560	14
210	550	15
210	540	16
210	530	20

X	Y	Z (MILLIMHOS/M)		
210	520	19	6	8
210	510	16		0470
210	500	20		
210	490	17		
210	480	16		
210	470	16		
210	460	16		
210	450	16		
210	440	16		
210	430	15		
210	420	17		
210	410	16		
210	400	9		
210	390	14		
210	380	14		
210	370	14		
210	360	14		
210	350	16		
210	340	16		
210	330	14		
210	320	10		
210	310	4		
215	960	3		
215	950	4		
215	940	4		
215	930	3		
215	920	4		
215	910	10		
215	900	4		
215	890	6		
215	880	8		
215	870	8		
215	860	8		
215	850	7		
215	845	6		
215	840	8		
215	835	7		
215	830	8		
215	825	7		
215	815	9		
215	805	10		
215	795	12		
215	785	11		
215	775	9		
215	765	13		
215	755	4		
215	745	12		
215	735	9		
215	725	7		
215	715	5		

X Y Z (MILLIMHOS/M)

215	705	8		
215	695	6	6	8
215	685	4		0471
215	675	4		
215	665	5		
215	655	5		
215	645	8		
215	635	5		
215	625	5		
215	615	7		
215	605	6		
215	595	2		
215	295	9		
215	285	5		
215	275	6		
215	265	6		
215	255	4		
215	245	6		
220	580	13		
220	570	10		
220	560	14		
220	550	14		
220	540	14		
220	530	18		
220	520	22		
220	510	16		
220	500	16		
220	490	22		
220	480	22		
220	470	17		
220	460	19		
220	450	17		
220	440	17		
220	430	19		
220	420	17		
220	410	18		
220	400	20		
220	390	10		
220	380	14		
220	370	14		
220	360	14		
220	350	16		
220	340	16		
220	330	14		
220	320	14		
220	310	3		
225	960	3		
225	950	4		
225	940	3		
225	930	2		

X	Y	Z (MILLIMHOS/M)		
225	920	6		
225	910	6	6	8
225	900	6		
225	890	8		
225	880	9		
225	870	10		
225	860	10		
225	850	12		
225	845	8		
225	840	13		
225	835	10		
225	830	13		
225	825	10		
225	815	12		
225	805	12		
225	795	14		
225	785	14		
225	775	12		
225	765	10		
225	755	16		
225	745	16		
225	735	18		
225	725	6		
225	715	7		
225	705	6		
225	695	5		
225	685	5		
225	675	6		
225	665	7		
225	655	8		
225	645	6		
225	635	6		
225	625	7		
225	615	6		
225	605	7		
225	595	4		
225	295	10		
225	285	6		
225	275	5		
225	265	6		
225	255	5		
225	245	6		
230	580	8		
230	570	19		
230	560	12		
230	550	14		
230	540	15		
230	530	19		
230	520	22		
230	510	20		

X	Y	Z (MILLIMHOS/M)			
230	500	20	6	8	0473
230	490	20			
230	480	19			
230	470	16			
230	460	17			
230	450	12			
230	440	16			
230	430	16			
230	420	22			
230	410	18			
230	400	18			
230	390	8			
230	380	10			
230	370	16			
230	360	16			
230	350	14			
230	340	16			
230	330	14			
230	320	16			
230	310	8			
235	960	2			
235	950	5			
235	940	4			
235	930	8			
235	920	6			
235	910	5			
235	900	8			
235	890	8			
235	880	9			
235	870	9			
235	860	10			
235	850	20			
235	845	10			
235	840	12			
235	835	10			
235	830	14			
235	825	13			
235	815	14			
235	805	12			
235	795	12			
235	785	14			
235	775	8			
235	765	0			
235	755	14			
235	745	0			
235	735	18			
235	725	8			
235	715	7			
235	705	10			
235	695	5			

X Y Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)			
235	685	8	6	8	0474
235	675	6			
235	665	7			
235	655	8			
235	645	6			
235	635	8			
235	625	8			
235	615	6			
235	605	7			
235	595	5			
235	295	12			
235	285	8			
235	275	6			
235	265	7			
235	255	5			
235	245	8			
240	590	14			
240	580	15			
240	570	17			
240	560	15			
240	550	17			
240	540	20			
240	530	14			
240	520	22			
240	510	23			
240	500	22			
240	490	16			
240	480	15			
240	470	15			
240	460	17			
240	450	11			
240	440	15			
240	430	16			
240	420	19			
240	410	18			
240	400	19			
240	390	16			
240	380	20			
240	370	14			
240	360	14			
240	350	14			
240	340	18			
240	330	16			
240	320	16			
240	310	12			
245	960	2			
245	950	4			
245	940	4			
245	930	6			
245	920	4			

X	Y	Z (MILLIMHOS/M)		
245	910	7	6	8
245	900	9		0475
245	890	9		
245	880	10		
245	870	10		
245	860	11		
245	850	11		
245	845	15		
245	840	14		
245	835	13		
245	830	14		
245	825	14		
245	815	15		
245	805	14		
245	795	11		
245	785	14		
245	775	17		
245	765	10		
245	755	0		
245	745	18		
245	735	10		
245	725	8		
245	715	5		
245	705	12		
245	695	5		
245	685	11		
245	675	10		
245	665	8		
245	655	11		
245	645	7		
245	635	8		
245	625	7		
245	615	8		
245	605	4		
245	595	3		
245	295	8		
245	285	9		
245	275	8		
245	265	7		
245	255	8		
245	245	7		
250	390	15		
250	380	12		
250	370	14		
250	360	14		
250	350	16		
250	340	18		
250	330	16		
250	320	18		
250	310	4		

X Y Z (MILLIMHOS/M)

255	990	1
255	980	1
255	970	1
255	960	1
255	950	3
255	940	4
255	930	3
255	920	6
255	910	6
255	900	8
255	890	8
255	880	9
255	870	10
255	860	12
255	850	14
255	845	15
255	840	14
255	835	14
255	830	16
255	825	16
255	815	16
255	805	15
255	795	11
255	785	12
255	775	14
255	765	10
255	755	10
255	745	12
255	735	10
255	725	6
255	715	9
255	705	14
255	695	8
255	685	6
255	675	10
255	665	10
255	655	9
255	645	9
255	635	0
255	625	2
255	615	6
255	605	8
255	595	4
255	585	4
255	295	8
255	285	9
255	275	8
255	265	9
255	255	8
255	245	6

6 8 0476

X Y Z (MILLIMHOS/M)

265	990	2	6	8	0477
265	980	2			
265	970	2			
265	960	2			
265	950	4			
265	940	4			
265	930	4			
265	920	7			
265	910	6			
265	900	9			
265	890	9			
265	880	10			
265	870	11			
265	860	12			
265	850	14			
265	845	16			
265	840	14			
265	835	14			
265	830	18			
265	825	15			
265	815	17			
265	805	16			
265	795	11			
265	785	8			
265	775	10			
265	765	8			
265	755	7			
265	745	6			
265	735	7			
265	725	9			
265	715	5			
265	705	11			
265	695	9			
265	685	8			
265	675	10			
265	665	9			
265	655	8			
265	645	0			
265	635	0			
265	625	8			
265	615	7			
265	605	10			
265	595	7			
265	585	4			
265	310	15			
265	295	13			
265	285	6			
265	275	9			
265	265	10			
265	255	7			

X	Y	Z (MILLIMHOS/M)			
265	245	8			
275	990	2	6	8	0478
275	980	1			
275	970	1			
275	960	2			
275	950	3			
275	940	4			
275	930	3			
275	920	5			
275	910	6			
275	900	9			
275	890	8			
275	880	11			
275	870	12			
275	860	14			
275	850	15			
275	845	15			
275	840	16			
275	835	14			
275	830	18			
275	825	17			
275	815	15			
275	805	13			
275	795	9			
275	785	9			
275	775	10			
275	765	5			
275	755	7			
275	745	9			
275	735	8			
275	725	10			
275	715	7			
275	705	6			
275	695	8			
275	685	10			
275	675	7			
275	665	9			
275	655	7			
275	645	16			
275	635	6			
275	625	13			
275	615	6			
275	605	8			
275	595	9			
275	585	4			
275	310	17			
275	295	20			
275	285	0			
275	275	10			
275	265	8			

X	Y	Z (MILLIMHOS/M)		
275	255	6	6	8
275	245	8		0479
285	990	2		
285	980	2		
285	970	2		
285	960	1		
285	950	4		
285	940	4		
285	930	6		
285	920	5		
285	910	9		
285	900	10		
285	890	10		
285	880	11		
285	870	12		
285	860	13		
285	850	16		
285	845	16		
285	840	20		
285	835	13		
285	830	16		
285	825	15		
285	815	14		
285	805	13		
285	795	10		
285	785	9		
285	775	11		
285	765	0		
285	755	0		
285	745	10		
285	735	10		
285	725	9		
285	715	8		
285	705	9		
285	695	6		
285	685	11		
285	675	6		
285	665	4		
285	655	10		
285	645	8		
285	635	8		
285	625	8		
285	615	10		
285	605	10		
285	595	11		
285	585	9		
285	575	1		
285	330	15		
285	320	20		
285	310	20		

X	Y	Z (MILLIMHOS/M)
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285	300	15
285	290	20
285	280	10
285	270	14
285	260	12
295	990	1
295	980	1
295	970	2
295	960	2
295	950	3
295	940	3
295	930	2
295	920	8
295	910	8
295	900	9
295	890	11
295	880	11
295	870	12
295	860	13
295	850	13
295	845	16
295	840	15
295	835	17
295	830	18
295	825	15
295	815	14
295	805	11
295	795	11
295	785	10
295	775	11
295	765	3
295	755	0
295	745	10
295	735	10
295	725	10
295	715	10
295	705	8
295	695	10
295	685	9
295	675	7
295	665	9
295	655	11
295	645	10
295	635	10
295	625	12
295	615	12
295	605	11
295	595	13
295	585	13
295	575	10

6 8 0 4 8 0

X	Y	Z (MILLIMHOS/M)
295	565	6
295	330	18
295	320	20
295	310	19
295	300	14
295	290	21
295	280	11
295	270	12
295	260	12
305	990	2
305	980	1
305	970	2
305	960	3
305	950	2
305	940	5
305	930	2
305	920	5
305	910	9
305	900	9
305	890	13
305	880	12
305	870	16
305	860	15
305	850	25
305	845	19
305	840	20
305	835	17
305	830	20
305	825	16
305	815	16
305	805	15
305	795	12
305	785	11
305	775	14
305	765	14
305	755	16
305	745	6
305	735	7
305	725	7
305	715	7
305	705	10
305	695	9
305	685	9
305	675	10
305	665	10
305	655	10
305	645	12
305	635	11
305	625	13
305	615	14

6 8 0481

X	Y	Z (MILLIMHOS/M)
305	605	10
305	595	15
305	585	15
305	575	14
305	565	11
305	555	12
305	545	12
305	535	15
305	330	17
305	320	20
305	310	20
305	300	14
305	290	20
305	280	11
305	270	10
305	260	16
315	990	3
315	980	2
315	970	2
315	960	3
315	950	3
315	940	5
315	930	7
315	920	8
315	910	7
315	900	10
315	890	13
315	880	14
315	860	12
315	850	11
315	845	21
315	840	14
315	835	18
315	830	17
315	825	15
315	815	15
315	805	15
315	795	12
315	785	12
315	775	17
315	765	10
315	755	9
315	745	13
315	735	6
315	725	8
315	715	6
315	705	6
315	695	10
315	685	14
315	675	6

X	Y	Z (MILLIMHOS/M)	
315	665	3	
315	655	7	6 8
315	645	10	0483
315	635	10	
315	625	14	
315	615	13	
315	605	12	
315	595	13	
315	585	15	
315	575	15	
315	565	14	
315	555	14	
315	390	20	
315	380	24	
315	370	29	
315	360	25	
315	350	16	
315	340	15	
315	330	24	
315	320	24	
315	310	20	
315	300	14	
315	290	22	
315	280	12	
315	270	12	
315	260	11	
325	980	2	
325	970	4	
325	960	6	
325	950	7	
325	940	9	
325	930	9	
325	920	14	
325	910	13	
325	900	12	
325	890	20	
325	880	12	
325	815	18	
325	805	16	
325	795	15	
325	785	12	
325	775	7	
325	765	8	
325	755	15	
325	745	10	
325	735	14	
325	725	15	
325	715	10	
325	705	8	
325	695	10	

X	Y	Z (MILLIMHOS/M)	6	8	0484
325	685	13			
325	675	12			
325	665	8			
325	655	7			
325	645	10			
325	635	10			
325	625	10			
325	615	13			
325	605	10			
325	595	12			
325	585	11			
325	575	11			
325	565	12			
325	555	14			
325	390	16			
325	380	22			
325	370	26			
325	360	23			
325	350	17			
325	340	15			
325	290	8			
325	280	4			
325	270	4			
330	330	22			
330	320	25			
330	310	27			
330	300	1			
330	290	0			
330	260	12			
330	250	12			
335	960	6			
335	950	7			
335	940	6			
335	930	9			
335	920	9			
335	910	9			
335	900	17			
335	890	9			
335	880	9			
335	795	16			
335	785	12			
335	775	11			
335	765	8			
335	755	10			
335	745	16			
335	715	16			
335	705	10			
335	695	11			
335	685	14			
335	675	14			

X	Y	Z (MILLIMHOS/M)
335	665	12
335	655	8
335	645	6
335	635	11
335	625	12
335	615	12
335	605	10
335	595	8
335	585	9
335	575	10
335	565	8
335	555	9
335	545	13
335	535	12
335	390	20
335	380	20
335	370	21
335	360	21
335	350	14
335	340	15
335	300	0
335	290	0
335	280	16
345	950	7
345	940	8
345	930	9
345	920	10
345	910	10
345	900	14
345	890	14
345	880	17
345	870	18
345	860	25
345	795	17
345	785	8
345	775	13
345	765	13
345	715	10
345	705	11
345	695	13
345	685	12
345	675	11
345	665	12
345	655	7
345	645	9
345	635	8
345	625	14
345	615	8
345	605	8
345	595	11

X	Y	Z (MILLIMHOS/M)		
345	585	11	6	8
345	575	10		0456
345	565	12		
345	555	11		
345	545	7		
345	535	8		
345	390	20		
345	380	20		
345	370	21		
345	360	21		
345	330	31		
345	320	34		
345	310	11		
345	300	4		
345	290	16		
345	280	17		
345	270	13		
345	260	13		
345	250	14		
355	950	7		
355	940	9		
355	930	10		
355	920	10		
355	910	8		
355	900	14		
355	890	18		
355	880	12		
355	870	14		
355	860	12		
355	850	18		
355	845	14		
355	840	20		
355	835	16		
355	795	11		
355	785	5		
355	775	17		
355	765	13		
355	725	12		
355	715	8		
355	705	14		
355	695	10		
355	685	10		
355	675	13		
355	665	9		
355	655	8		
355	645	8		
355	635	8		
355	625	8		
355	615	4		
355	605	15		

X	Y	Z (MILLIMHOS/M)			
355	595	9	6	8	0437
355	585	10			
355	575	10			
355	565	10			
355	555	9			
355	545	6			
355	535	7			
355	390	16			
355	380	17			
355	330	26			
355	320	0			
355	310	0			
355	300	16			
355	290	11			
355	280	14			
355	270	10			
355	260	9			
355	250	13			
365	950	7			
365	940	9			
365	930	9			
365	920	10			
365	910	9			
365	900	11			
365	890	10			
365	880	13			
365	870	11			
365	860	13			
365	850	12			
365	845	13			
365	840	14			
365	835	13			
365	825	14			
365	815	5			
365	805	9			
365	795	8			
365	785	10			
365	775	10			
365	735	9			
365	725	9			
365	715	13			
365	705	16			
365	695	11			
365	685	12			
365	675	8			
365	665	9			
365	655	12			
365	645	8			
365	635	6			
365	625	0			

X Y Z (MILLIMHOS/M)

			6 8 0488
365	615	6	
365	605	0	
365	595	6	
365	585	11	
365	575	10	
365	565	7	
365	555	8	
365	545	8	
365	535	9	
365	390	11	
365	380	5	
365	330	16	
365	320	20	
365	310	24	
365	300	15	
365	290	12	
365	280	9	
365	270	11	
365	260	12	
365	250	15	
375	950	8	
375	940	10	
375	930	9	
375	920	9	
375	910	13	
375	900	13	
375	890	11	
375	880	10	
375	870	9	
375	860	10	
375	850	5	
375	845	7	
375	840	10	
375	835	5	
375	825	10	
375	815	1	
375	805	9	
375	795	7	
375	785	11	
375	735	8	
375	725	13	
375	715	13	
375	705	11	
375	695	12	
375	685	11	
375	675	10	
375	665	8	
375	655	6	
375	645	10	
375	635	7	

X Y Z (MILLIMHOS/M)

375	625	4	6	8	0459
375	615	0			
375	605	6			
375	595	10			
375	585	10			
375	575	9			
375	565	7			
375	555	8			
375	545	8			
375	535	8			
375	525	8			
375	515	7			
375	505	9			
375	495	10			
375	485	14			
375	475	11			
375	465	12			
375	455	19			
375	445	11			
375	435	23			
375	425	20			
375	415	25			
376	675	10			
380	405	18			
380	395	13			
380	385	15			
380	375	15			
380	365	13			
380	355	10			
380	345	12			
380	340	14			
380	330	12			
380	320	10			
380	310	14			
380	300	8			
380	290	11			
380	280	13			
380	270	8			
380	260	12			
380	250	16			
380	240	10			
380	230	15			
380	220	15			
380	210	18			
380	200	18			
380	190	18			
380	180	15			
380	170	16			
380	160	15			
380	150	19			

X	Y	Z (MILLIMHOS/M)		
380	140	17		
380	130	15	6	8
385	930	8		
385	920	9		
385	910	8		
385	900	9		
385	890	11		
385	880	7		
385	870	7		
385	860	7		
385	850	7		
385	840	4		
385	835	4		
385	825	4		
385	815	2		
385	805	7		
385	795	6		
385	785	8		
385	775	13		
385	745	9		
385	735	9		
385	725	17		
385	715	12		
385	705	11		
385	695	10		
385	685	7		
385	675	8		
385	665	6		
385	655	5		
385	645	7		
385	635	6		
385	625	5		
385	615	6		
385	605	6		
385	595	6		
385	585	6		
385	575	10		
385	565	9		
385	555	9		
385	545	8		
385	535	8		
385	525	9		
385	515	6		
385	505	6		
385	495	10		
385	485	11		
385	475	15		
385	465	14		
385	455	15		
385	445	8		

X	Y	Z (MILLIMHOS/M)
385	435	10 6 8 0 4 9 1
385	425	18
385	415	21
390	405	19
390	395	21
390	385	13
390	375	10
390	365	8
390	355	7
390	345	8
390	340	9
390	330	8
390	320	11
390	310	10
390	300	9
390	290	9
390	280	15
390	270	9
390	260	12
390	250	16
390	240	18
390	230	18
390	220	20
390	210	14
390	200	17
390	190	17
390	180	18
390	170	18
390	160	20
390	150	17
390	140	22
390	130	15
395	920	8
395	910	7
395	900	8
395	890	8
395	880	9
395	870	6
395	860	6
395	850	5
395	840	5
395	835	4
395	825	5
395	815	3
395	805	6
395	795	8
395	785	1
395	775	8
395	765	13
395	755	13

X	Y	Z (MILLIMHOS/M)
395	745	8
395	735	12
395	725	15
395	715	13
395	705	10
395	695	10
395	685	7
395	675	7
395	665	5
395	655	5
395	645	4
395	635	5
395	625	5
395	615	6
395	605	8
395	595	6
395	585	6
395	575	6
395	565	8
395	555	10
395	545	10
395	535	9
395	525	8
395	515	6
395	505	8
395	495	10
395	485	10
395	475	12
395	465	12
395	455	12
395	445	9
395	435	21
395	425	20
395	415	20
400	405	11
400	395	11
400	385	13
400	375	13
400	365	5
400	355	7
400	345	6
400	340	8
400	330	7
400	320	8
400	310	8
400	300	12
400	290	12
400	280	13
400	270	13
400	260	3

X Y Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)	6	8	0453
400	250	13			
400	240	20			
400	230	16			
400	220	24			
400	210	15			
400	200	25			
400	190	19			
400	180	18			
400	170	20			
400	160	27			
400	150	18			
400	140	23			
400	130	11			
405	835	3			
405	825	4			
405	815	5			
405	805	5			
405	795	8			
405	785	12			
405	775	8			
405	765	8			
405	755	10			
405	745	14			
405	735	12			
405	725	9			
405	715	11			
405	705	8			
405	695	12			
405	685	6			
405	675	7			
405	665	2			
405	655	5			
405	645	4			
405	635	4			
405	625	5			
405	615	4			
405	605	6			
405	595	6			
405	585	7			
405	575	8			
405	565	6			
405	555	7			
405	545	3			
405	535	6			
405	525	6			
405	515	6			
405	505	9			
405	495	9			
405	485	8			
405	475	11			

X	Y	Z (MILLIMHOS/M)		
405	465	14		
405	455	11		
405	445	14	6	8
405	435	12		0494
405	425	10		
405	415	12		
405	335	4		
410	405	12		
410	395	9		
410	385	9		
410	375	6		
410	365	6		
410	355	14		
410	345	4		
410	340	5		
410	330	8		
410	320	6		
410	310	8		
410	300	9		
410	290	11		
410	280	10		
410	270	10		
410	260	16		
410	250	17		
410	240	19		
410	230	15		
410	220	18		
410	210	20		
410	200	14		
410	190	21		
410	180	17		
410	170	23		
410	160	27		
410	150	22		
410	140	27		
410	130	18		
415	835	4		
415	825	5		
415	815	4		
415	805	5		
415	795	4		
415	785	6		
415	775	11		
415	765	11		
415	755	13		
415	745	14		
415	735	10		
415	725	12		
415	715	11		
415	705	8		

X	Y	Z (MILLIMHOS/M)
415	695	6 6 8 0 4 9 5
415	685	6
415	675	0
415	665	5
415	655	4
415	645	4
415	635	4
415	625	4
415	615	6
415	605	5
415	595	5
415	585	6
415	575	6
415	565	4
415	555	6
415	335	6
420	545	7
420	535	8
420	525	8
420	515	9
420	505	7
420	495	8
420	485	10
420	475	12
420	465	12
420	455	9
420	445	14
420	435	12
420	425	7
420	415	12
420	405	9
420	395	10
420	385	9
420	375	9
420	365	5
420	355	8
420	345	6
420	340	9
420	330	6
420	320	10
420	310	8
420	300	8
420	290	8
420	280	4
420	270	11
420	260	19
420	250	14
420	240	18
420	230	16
420	220	21

X	Y	Z (MILLIMHOS/M)		
420	210	15	6	8
420	200	20		0496
420	190	16		
420	180	22		
420	170	20		
420	160	34		
420	150	21		
420	140	26		
420	130	23		
425	805	6		
425	795	6		
425	785	7		
425	775	10		
425	765	9		
425	755	12		
425	745	8		
425	735	10		
425	725	11		
425	715	8		
425	705	10		
425	695	6		
425	685	7		
425	675	7		
425	665	8		
425	655	5		
425	645	5		
425	635	5		
425	625	4		
425	615	5		
425	605	5		
425	595	6		
425	585	7		
425	575	6		
425	565	6		
430	535	8		
430	525	9		
430	515	9		
430	505	11		
430	495	9		
430	485	11		
430	475	11		
430	465	10		
430	455	12		
430	445	10		
430	435	8		
430	425	8		
430	415	12		
430	405	8		
430	395	7		
430	385	11		

X

Y

Z (MILLIMHOS/M)

430	375	10	6	8	0497
430	365	10			
430	355	8			
430	345	7			
430	340	6			
430	330	8			
430	320	9			
430	310	10			
430	300	10			
430	290	10			
430	280	11			
430	270	15			
430	260	13			
430	250	17			
430	240	17			
430	230	17			
430	220	17			
430	210	15			
430	200	24			
430	190	15			
430	180	30			
430	170	15			
430	160	22			
430	150	23			
430	140	26			
430	130	22			
435	785	6			
435	775	6			
435	765	8			
435	755	8			
435	745	10			
435	735	10			
435	725	10			
435	715	6			
435	705	10			
435	695	5			
435	685	6			
435	675	6			
435	665	4			
435	655	5			
435	645	5			
435	635	4			
435	625	4			
435	615	4			
435	605	4			
435	595	6			
435	585	7			
435	575	5			
435	565	9			
440	535	8			

X	Y	Z (MILLIMHOS/M)
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440	525	10
440	515	10
440	505	9
440	495	9
440	485	11
440	475	10
440	465	12
440	455	11
440	445	7
440	435	8
440	425	12
440	415	5
440	405	6
440	395	6
440	385	5
440	375	8
440	365	6
440	340	5
440	330	8
440	320	10
440	310	10
440	300	10
440	290	13
440	280	12
440	270	12
440	260	15
440	250	16
440	240	16
440	230	14
440	220	17
440	210	21
440	200	13
440	190	19
440	180	28
440	170	25
440	160	18
440	150	20
440	140	28
440	130	21
445	785	8
445	775	8
445	765	6
445	755	6
445	745	11
445	735	8
445	725	7
445	715	7
445	705	6
445	695	6
445	685	7

X	Y	Z (MILLIMHOS/M)
445	675	6
445	665	6
445	655	4
445	645	4
445	635	4
445	625	4
450	575	0
450	565	8
450	555	8
450	545	10
450	535	8
450	525	11
450	515	10
450	505	10
450	495	10
450	485	12
450	475	10
450	465	13
450	455	11
450	445	13
450	435	6
450	425	12
450	415	2
450	405	4
450	395	10
450	385	5
450	375	7
450	365	6
450	340	12
450	330	8
450	320	10
450	310	9
450	300	8
450	290	11
450	280	12
450	270	14
450	260	15
450	250	15
450	240	17
450	230	16
450	220	17
450	210	20
450	200	16
450	190	21
450	180	16
450	170	31
450	160	23
450	150	22
450	140	27
450	130	23

X	Y	Z (MILLIMHOS/M)		
455	775	4		
455	765	6	6	8
455	755	9		
455	745	10		
455	735	8		
455	725	6		
455	715	6		
455	705	6		
455	695	5		
455	685	4		
455	675	5		
455	665	5		
455	655	4		
455	645	3		
455	635	6		
460	575	12		
460	565	8		
460	555	12		
460	545	12		
460	535	13		
460	525	12		
460	515	12		
460	505	10		
460	495	11		
460	485	7		
460	475	11		
460	465	11		
460	455	12		
460	445	10		
460	435	8		
460	425	7		
460	415	2		
460	405	5		
460	395	8		
460	385	7		
460	375	7		
460	365	6		
460	340	8		
460	330	9		
460	320	11		
460	310	10		
460	300	10		
460	290	8		
460	280	12		
460	270	14		
460	260	13		
460	250	18		
460	240	18		
460	230	17		
460	220	17		

X	Y	Z (MILLIMHOS/M)		
460	210	18	6	8
460	200	19		0501
460	190	26		
460	180	21		
460	170	18		
460	160	23		
460	150	20		
460	140	23		
460	130	22		
465	745	8		
465	735	6		
465	725	4		
465	715	6		
465	705	5		
465	695	6		
465	685	5		
465	675	4		
465	665	4		
465	655	4		
465	645	9		
470	755	4		
470	585	11		
470	575	13		
470	565	11		
470	555	10		
470	545	10		
470	535	14		
470	525	14		
470	515	14		
470	505	10		
470	495	10		
470	485	10		
470	475	10		
470	465	13		
470	455	10		
470	445	8		
470	435	9		
470	425	6		
470	415	9		
470	405	5		
470	395	6		
470	385	7		
470	375	6		
470	365	3		
470	340	10		
470	330	9		
470	320	10		
470	310	8		
470	300	14		
470	290	11		

X Y Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)	
470	280	8	
470	270	15	
470	260	16	6 8 0302
470	250	21	
470	240	24	
470	230	24	
470	220	22	
470	210	23	
470	200	20	
470	190	20	
470	180	20	
470	170	20	
470	160	20	
470	150	20	
470	140	23	
470	130	22	
475	745	6	
475	735	2	
475	725	6	
475	715	5	
475	705	6	
475	695	5	
475	685	4	
475	675	12	
475	665	9	
475	655	9	
475	645	4	
475	635	4	
475	625	5	
475	615	6	
480	755	5	
480	585	10	
480	575	10	
480	565	14	
480	555	10	
480	545	11	
480	535	15	
480	525	14	
480	515	14	
480	505	12	
480	495	12	
480	485	10	
480	475	10	
480	465	13	
480	455	10	
480	445	10	
480	435	10	
480	425	6	
480	415	11	
480	405	8	

X

Y

Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)			
480	395	6			
480	365	7			
480	355	5	6	8	0503
480	340	8			
480	330	11			
480	320	10			
480	310	8			
480	300	10			
480	290	0			
480	280	0			
480	270	19			
480	260	18			
480	250	16			
480	240	21			
480	230	21			
480	220	21			
480	210	20			
480	200	22			
480	190	20			
480	180	19			
480	170	17			
480	160	18			
480	150	17			
480	140	20			
480	130	28			
485	695	5			
485	685	5			
485	675	5			
485	665	10			
485	655	6			
485	645	5			
485	635	6			
485	625	8			
485	615	7			
490	765	3			
490	755	4			
490	745	4			
490	735	5			
490	725	5			
490	715	5			
490	705	5			
490	585	10			
490	575	11			
490	565	13			
490	555	15			
490	545	15			
490	535	15			
490	525	14			
490	515	12			
490	505	12			

X

Y

Z (MILLIMHOS/M)

490	495	10	6	8	0304
490	485	10			
490	475	10			
490	465	10			
490	455	10			
490	445	11			
490	435	6			
490	425	9			
490	415	7			
490	405	6			
490	395	6			
490	385	7			
490	375	6			
490	365	6			
490	355	5			
490	340	6			
490	330	7			
490	320	11			
490	310	14			
490	300	14			
490	290	14			
490	280	9			
490	270	19			
490	260	18			
490	250	20			
490	240	22			
490	230	23			
490	220	23			
490	210	19			
490	200	19			
490	190	15			
490	180	15			
490	170	16			
490	160	16			
490	150	16			
490	140	19			
490	130	20			
495	695	7			
495	685	5			
495	675	5			
495	665	5			
495	655	5			
495	645	7			
495	635	4			
500	765	5			
500	755	5			
500	745	7			
500	735	6			
500	725	6			
500	715	5			

X Y Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)			
500	705	6			
500	585	11			
500	575	12			
500	565	13			
500	555	15			
500	545	15			
500	535	15			
500	525	12			
500	515	14			
500	505	10			
500	495	11			
500	485	11			
500	475	12			
500	465	10			
500	455	10			
500	445	11			
500	435	10			
500	425	6			
500	415	10			
500	405	6			
500	395	5			
500	385	4			
500	375	4			
500	365	4			
500	355	5			
500	340	6			
500	330	8			
500	320	8			
500	310	5			
500	300	12			
500	290	11			
500	280	10			
500	270	14			
500	260	18			
500	250	21			
500	240	22			
500	230	22			
500	220	17			
500	210	15			
500	200	12			
500	190	10			
500	180	15			
500	170	14			
500	160	15			
500	150	16			
500	140	17			
500	130	12			
505	695	6			
505	685	6			
505	675	6			

X Y Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)
505	665	6
505	655	6
505	645	5
505	635	4
510	585	12
510	575	11
510	565	14
510	555	13
510	545	15
510	535	13
510	525	11
510	515	12
510	505	11
510	495	11
510	485	10
510	475	10
510	465	10
510	455	10
510	445	10
510	435	11
510	425	9
510	415	8
510	405	4
510	395	5
510	385	3
510	375	6
510	365	3
510	355	3
510	340	3
510	330	11
510	320	6
510	310	7
510	300	8
510	290	10
510	280	10
510	270	15
510	260	18
510	250	22
510	240	22
520	575	23
520	565	14
520	555	13
520	545	12
520	535	14
520	525	12
520	515	12
520	505	10
520	495	11
520	485	9
520	475	12

X	Y	Z (MILLIMHOS/M)
520	465	10
520	455	10
520	445	12
520	435	12
520	425	10
520	415	8
520	405	4
520	395	4
520	385	4
520	375	3
520	365	5
520	355	4
520	340	3
520	330	13
520	320	2
520	310	7
520	300	9
520	290	9
520	280	10
520	270	13
520	260	13
520	250	20
520	240	21
530	585	13
530	575	14
530	565	13
530	555	11
530	545	14
530	535	12
530	525	11
530	515	10
530	505	14
530	495	10
530	485	10
530	475	13
530	465	10
530	455	11
530	445	11
530	435	9
530	425	7
530	415	7
530	405	4
530	395	6
530	385	5
530	375	6
530	365	5
530	355	5
530	340	8
530	330	2
530	320	5

6 8 0507

X	Y	Z (MILLIMHOS/M)
530	310	8
530	300	7
530	290	9
530	280	9
530	270	12
530	260	12
530	250	18
530	240	18
540	585	10
540	575	12
540	565	10
540	555	11
540	545	10
540	535	10
540	525	12
540	515	10
540	505	14
540	495	13
540	485	12
540	475	10
540	465	11
540	455	9
540	445	7
540	435	6
540	425	6
540	415	7
540	405	4
540	395	6
540	385	6
540	375	4
540	365	4
540	355	4
540	340	8
540	330	3
540	320	6
540	310	6
540	300	8
540	290	9
540	280	9
540	270	10
540	260	12
540	250	10
540	240	12
550	585	8
550	575	9
550	565	10
550	555	9
550	545	8
550	535	10
550	525	10

X Y Z (MILLIMHOS/M)

X	Y	Z (MILLIMHOS/M)			
550	515	10			
550	505	12			
550	495	13	6	8	0509
550	485	10			
550	475	9			
550	465	10			
550	455	8			
550	445	6			
550	435	6			
550	425	7			
550	415	7			
550	405	4			
550	395	6			
550	385	7			
550	375	4			
550	365	4			
550	355	4			
560	585	7			
560	575	7			
560	565	8			
560	555	8			
560	545	8			
560	535	9			
560	525	9			
560	515	10			
560	505	11			
560	495	12			
560	485	12			
560	475	10			
560	465	9			
560	455	9			
560	445	6			
560	435	6			
560	425	6			
560	415	6			
560	405	8			
560	395	3			
560	385	5			
560	375	2			
560	365	4			
560	355	3			
570	585	6			
570	575	6			
570	565	10			
570	555	8			
570	545	7			
570	535	8			
570	525	9			
570	515	9			
570	505	9			

X	Y	Z (MILLIMHOS/M)
570	495	8
570	485	9
570	475	8
570	465	8
570	455	6
570	445	6
570	435	5
570	425	6
570	415	6
570	405	4
570	395	4
570	385	5
570	375	2
570	365	4
570	355	5
580	585	8
580	575	7
580	565	8
580	555	7
580	545	7
580	535	6
580	525	8
580	515	8
580	505	8
580	495	6
580	485	9
580	475	6
580	465	7
580	455	5
580	445	5
580	435	5
580	425	6
580	415	5
580	405	6
580	395	4
580	385	6
580	375	3
580	365	5
580	355	4
590	525	6
590	515	6
590	505	7
590	495	6
590	485	6
590	475	5
590	465	7
590	455	5
590	445	5
590	435	5
590	425	4

X Y Z (MILLIMHOS/M)

590	415	8	
590	405	4	6 8 0511
590	395	4	
590	385	5	
590	375	4	
590	365	6	
590	355	3	
600	525	4	
600	515	4	
600	505	6	
600	495	6	
600	485	5	
600	475	5	
600	465	6	
600	455	5	
600	445	5	
600	435	5	
600	425	5	
600	415	8	
600	405	2	
600	395	4	
600	385	4	
600	375	5	
600	365	6	
600	355	5	
610	505	5	
610	495	4	
610	485	4	
610	475	4	
610	465	4	
610	455	6	
610	445	5	
610	435	5	
610	425	6	
610	415	6	
610	405	2	
610	395	4	
610	385	4	
610	375	5	
610	365	7	
610	355	6	
620	505	5	
620	495	5	
620	485	4	
620	475	5	
620	465	4	
620	455	4	
620	445	5	
620	435	5	
620	425	7	

X	Y	Z (MILLIMHOS/M)			
620	415	10	6	8	0512
620	405	3			
620	395	4			
620	385	3			
620	375	5			
620	365	5			
620	355	11			
630	505	6			
630	495	4			
630	485	4			
630	475	4			
630	465	4			
630	455	4			
630	445	6			
630	435	6			
630	425	6			
630	415	7			
630	405	1			
630	395	4			
630	385	5			
630	375	5			
630	365	5			
630	355	10			

ATTACHMENT 3

6 8 0513

6 8 0314

PROTON PRECESSION MAGNETOMETER DATA

6 8 0515

MAGNETOMETER DATA - GRID 1

Station Number	X-Coord.	Y-Coord.	Gammas E-1
0	0	0	563192
1	10	0	559457
2	20	0	548898
3	30	0	547623
4	40	0	550952
5	50	0	551328
6	60	0	551329
7	70	0	551371
8	80	0	551637
9	90	0	551556
10	100	0	551496
11	110	0	552238
12	120	0	551797
13	130	0	551384
14	140	0	551036
15	150	0	551091
16	160	0	551408
17	170	0	551560
18	180	0	551671
19	190	0	551563
20	200	0	551663
21	210	0	551704
22	220	0	551678
23	230	0	551733
24	240	0	551748
25	250	0	551762
26	260	0	551750
27	270	0	551707
28	280	0	551667
29	290	0	551739
30	300	0	551721
31	300	-10	551534
32	290	-10	551489
33	280	-10	551540
34	270	-10	551544
35	260	-10	551525
36	250	-10	551601
37	240	-10	551600
38	230	-10	551553
39	220	-10	551538
40	210	-10	551496
41	200	-10	551500

42	190	-10	551567
43	180	-10	551500
44	170	-10	551780
45	160	-10	551430
46	150	-10	551265
47	140	-10	550748
48	130	-10	550990
49	120	-10	551710
50	110	-10	551582
51	100	-10	551681
52	90	-10	551564
53	80	-10	551475
54	70	-10	551420
55	60	-10	551092
56	50	-10	551029
57	40	-10	550594
58	30	-10	549075
59	20	-10	550069
60	10	-10	553378
61	0	-10	554100
62	0	-20	551933
63	10	-20	552092
64	20	-20	555518
65	30	-20	556721
66	40	-20	551785
67	50	-20	551208
68	60	-20	550989
69	70	-20	550951
70	80	-20	551308
71	90	-20	551414
72	100	-20	551771
73	110	-20	551225
74	120	-20	551329
75	130	-20	551384
76	140	-20	554269
77	150	-20	553180
78	160	-20	551477
79	170	-20	551453
80	180	-20	551604
81	190	-20	551636
82	200	-20	551643
83	210	-20	551645
84	220	-20	551615
85	230	-20	551794
86	240	-20	551773
87	250	-20	551751
88	260	-20	551723
89	270	-20	551731

90	280	-20	551558
91	290	-20	551626
92	300	-20	551625
93	0	-30	551736
94	10	-30	552215
95	20	-30	553387
96	30	-30	552735
97	40	-30	551601
98	50	-30	551584
99	60	-30	551934
100	70	-30	551915
101	80	-30	551559
102	90	-30	551804
103	100	-30	551738
104	110	-30	551455
105	120	-30	551345
106	130	-30	551582
107	140	-30	551793
108	150	-30	551837
109	160	-30	551701
110	170	-30	551606
111	180	-30	551127
112	190	-30	551444
113	200	-30	551578
114	210	-30	551572
115	220	-30	551625
116	230	-40	551608
117	220	-40	551510
118	210	-40	551608
119	200	-40	551588
120	190	-40	551584
121	180	-40	551572
122	170	-40	551608
123	160	-40	551629
124	150	-40	551610
125	140	-40	551527
126	130	-40	551587
127	120	-40	551553
128	110	-40	551532
129	100	-40	551606
130	90	-40	551689
131	80	-40	552047
132	70	-40	552456
133	60	-40	551814
134	50	-40	551813
135	40	-40	551766
136	30	-40	551962
137	20	-40	552234

6 8 0518

138	10	-40	552258
139	0	-40	551824
140	0	10	575704
141	10	10	569801
142	20	10	556603
143	30	10	553348
144	40	10	551494
145	50	10	551124
146	60	10	551146
147	70	10	551127
148	80	10	551231
149	90	10	551430
150	100	10	551223
151	110	10	551208
152	120	10	551331
153	130	10	551306
154	140	10	551272
155	150	10	551371
156	160	10	551429
157	170	10	551028
158	180	10	551496
159	190	10	551475
160	200	10	551669
161	210	10	551529
162	220	10	551539
163	230	10	551519
164	240	10	551481
165	250	10	551501
166	260	10	551496
167	270	10	551470
168	280	10	551466
169	290	10	551500
170	300	10	551605
171	300	20	551416
172	290	20	551583
173	280	20	551608
174	270	20	551496
175	260	20	551408
176	250	20	551468
177	240	20	551511
178	230	20	551588
179	220	20	551596
180	210	20	551470
181	200	20	551741
182	190	20	551534
183	180	20	551493
184	170	20	551516
185	160	20	551512

6 8 0519

186	150	20	551562
187	140	20	551170
188	130	20	551432
189	120	20	551403
190	110	20	551312
191	100	20	551330
192	90	20	551445
193	80	20	551255
194	70	20	551240
195	60	20	551105
196	50	20	550857
197	40	20	551488
198	30	20	557893
199	20	20	569486
200	10	20	559130
201	0	20	551188
202	0	30	545835
203	10	30	548516
204	20	30	582159
205	30	30	563175
206	40	30	551006
207	50	30	550368
208	60	30	550768
209	70	30	551039
210	80	30	551268
211	90	30	551319
212	100	30	551407
213	110	30	551459
214	120	30	551478
215	130	30	551442
216	140	30	551468
217	150	30	551425
218	160	30	551440
219	170	30	551475
220	180	30	551495
221	190	30	551660
222	200	30	551855
223	210	30	551604
224	220	30	551551
225	230	30	551531
226	240	30	551524
227	250	30	551544
228	260	30	551507
229	270	30	551547
230	280	30	551477
231	290	30	551529
232	300	30	551389
233	310	30	551482

6 8 0520

234	300	40	551532
235	290	40	551421
236	280	40	551412
237	270	40	551522
238	260	40	551493
239	250	40	551427
240	240	40	551528
241	230	40	551516
242	220	40	551497
243	210	40	551530
244	200	40	551426
245	190	40	551440
246	180	40	551293
247	170	40	551526
248	160	40	551398
249	150	40	551277
250	140	40	551503
251	130	40	551510
252	120	40	551523
253	110	40	551507
254	100	40	551621
255	90	40	551547
256	80	40	551318
257	70	40	551108
258	60	40	550817
259	50	40	550150
260	40	40	548777
261	30	40	547329
262	20	40	551207
263	10	40	546657
264	0	40	545691
265	0	50	549719
266	10	50	546046
267	20	50	544581
268	30	50	548271
269	40	50	549699
270	50	50	550601
271	60	50	551008
272	70	50	551198
273	80	50	551253
274	90	50	551704
275	100	50	551530
276	110	50	551611
277	120	50	551662
278	130	50	551487
279	140	50	551483
280	150	50	551465
281	160	50	551471

282	170	50	551457
283	180	50	551479
284	190	50	551485
285	200	50	551442
286	210	50	551561
287	220	50	551593
288	230	50	551559
289	240	50	551553
290	250	50	551535
291	260	50	551614
292	270	50	551573
293	280	50	551463
294	290	50	551530
295	300	50	551587
296	300	70	551589
297	280	70	551733
298	260	70	551572
299	240	70	551830
300	220	70	551946
301	200	70	551689
302	180	70	551663
303	160	70	551590
304	140	70	551435
305	120	70	551497
306	100	70	551441
307	80	70	551314
308	60	70	551257
309	40	70	551602
310	20	70	552471
311	0	70	550648
312	0	90	551143
313	20	90	551613
314	40	90	551299
315	60	90	551127
316	80	90	551289
317	100	90	551464
318	120	90	551425
319	140	90	551625
320	160	90	551347
321	180	90	551480
322	200	90	551397
323	220	90	551571
324	240	90	551500
325	260	90	551454
326	280	90	551488
327	300	90	551578
328	300	110	551444
329	280	110	551365

6 8 0522

330	260	110	551656
331	240	110	551504
332	220	110	551405
333	200	110	551543
334	180	110	551388
335	160	110	551519
336	140	110	551402
337	120	110	551480
338	100	110	551170
339	80	110	551203
340	60	110	551079
341	40	110	551487
342	20	110	551721
343	0	110	551504
344	100	130	551366
345	120	130	551521
346	140	130	551545
347	160	130	551266
348	180	130	551357
349	200	130	551563
350	220	130	551475
351	240	130	551432
352	260	130	551608
353	280	130	551751
354	260	150	552626
355	240	150	551669
356	220	150	551610
357	200	150	551572
358	180	150	551485
359	160	150	551644
360	140	150	551571
361	120	150	551457
362	100	150	551439
363	100	170	551338
364	120	170	551042
365	140	170	551596
366	160	170	551499
367	180	170	551546
368	200	170	551518
369	220	170	551635
370	240	170	551603
371	260	170	551483
372	260	190	551577
373	240	190	551751
374	220	190	551515
375	200	190	551595
376	180	190	551592
377	160	190	551684

6 8 0523

378	140	190	551763
379	120	190	551714
380	100	190	551616
381	100	210	551373
382	120	210	551544
383	140	210	551726
384	160	210	551694
385	180	210	551496
386	200	210	551589
387	220	210	551630
388	240	210	551652
389	260	210	551512
390	260	230	551516
391	240	230	551602
392	220	230	551551
393	200	230	551594
394	180	230	551585
395	160	230	551737
396	140	230	551669
397	120	230	551597
398	100	230	551487
399	100	250	551422
400	120	250	551679
401	140	250	552118
402	160	250	552103
403	180	250	551816
404	200	250	551679
405	220	250	551526
406	240	250	551570
407	260	250	551486
408	260	270	551451
409	240	270	551703
410	220	270	551665
411	200	270	551769
412	180	270	551716
413	160	270	551685
414	140	270	551733
415	120	270	551474
416	100	270	550982
417	100	290	551480
418	120	290	551663
419	140	290	551651
420	160	290	551675
421	180	290	551817
422	200	290	551860
423	220	290	551698
424	240	290	551574
425	260	290	551587

6 8 0524

MAGNETOMETER DATA - GRID 2

Station Number	X-Coord.	Y-Coord.	Gammas E-1
430	280	120	551588
431	260	120	550990
432	240	120	551901
433	220	120	551839
434	200	120	551811
435	180	120	552115
436	160	120	551510
437	140	120	551719
438	120	120	552053
439	100	120	551611
440	80	120	551556
441	60	120	551647
442	40	120	551916
443	20	120	551546
444	0	120	551470
445	0	100	551724
446	20	100	551534
447	40	100	551652
448	60	100	551573
449	80	100	551688
450	100	100	551745
451	120	100	552020
452	140	100	551941
453	160	100	551792
454	180	100	551559
455	200	100	551790
456	220	100	552034
457	240	100	552838
458	260	100	552130
459	280	100	551231
460	280	80	551937
461	260	80	551365
462	240	80	551690
463	220	80	551577
464	200	80	551861
465	180	80	551635
466	160	80	551784
467	140	80	551895
468	120	80	551687
469	100	80	551155
470	80	80	551559
471	60	80	551590
472	40	80	551631

6 8 0525

473	20	80	551714
474	0	80	551428
475	0	60	551706
476	20	60	551830
477	40	60	551704
478	60	60	551824
479	80	60	551594
480	100	60	551631
481	120	60	552066
482	140	60	551718
483	160	60	551945
484	180	60	551921
485	200	60	551473
486	220	60	552696
487	240	60	551572
488	260	60	551628
489	280	60	551107
490	280	40	551404
491	260	40	551195
492	240	40	550951
493	220	40	550903
494	200	40	551079
495	180	40	550996
496	160	40	551610
497	140	40	551664
498	120	40	551574
499	100	40	551740
500	80	40	551900
501	60	40	551686
502	40	40	551706
503	20	40	551843
504	0	40	556530
505	300	20	552148
506	280	20	551010
507	260	20	551607
508	240	20	552025
509	220	20	551549
510	200	20	551483
511	180	20	551964
512	160	20	551656
513	140	20	551860
514	120	20	551642
515	100	20	551752
516	80	20	551019
517	60	20	550881
518	40	20	551623
519	20	20	552301
520	0	20	551157

6 8 0526

521	0	0	554327
522	20	0	561747
523	40	0	552387
524	60	0	551545
525	80	0	554150
526	100	0	551496
527	120	0	551541
528	140	0	551595
529	160	0	551587
530	180	0	551882
531	200	0	551909
532	220	0	551699
533	240	0	551669
534	260	0	551443
535	280	0	551577

6 8 0527

MAGNETOMETER DATA - GRID 3

Station Number	X-Coord.	Y-Coord.	Gammas E-1
1	0	40	551734
2	20	40	551808
3	40	40	551736
4	60	40	551741
5	80	40	551876
6	100	20	551780
7	80	20	551746
8	60	20	551717
9	40	20	551680
10	20	20	551934
11	0	20	551757
12	0	0	551732
13	20	0	551715
14	40	0	551715
15	60	0	551649
16	80	0	551670
17	100	0	552031

MAGNETOMETER DATA - GRID 3B

X-Coord.	Y-Coord.	Gammas
0	0	55170
10	0	55170
20	0	55220
30	0	55170
40	0	55170
50	0	55170
60	0	54970
0	10	55170
10	10	55170
20	10	55270
30	10	55870
40	10	54770
50	10	54170
60	10	54870
0	20	54970
10	20	54470
20	20	54470
30	20	56670
40	20	58370
50	20	54770
60	20	54970
0	30	55170
10	30	56070
20	30	54970
30	30	55470
40	30	55170
50	30	55170
60	30	55170

6 8 0529

MAGNETOMETER DATA - GRID 4

Station Number	X-Coord.	Y-Coord.	Gammas E-1
18	0	10	551722
19	20	10	551656
20	40	10	551900
21	60	10	551770
22	80	10	551832
23	120	0	551943
24	100	0	551672
25	80	0	551687
26	60	0	551543
27	40	0	551693
28	20	0	551370
29	0	0	551967

6 8 0530

MAGNETOMETER DATA - GRID 5

Station Number	X-Coord.	Y-Coord.	Gammas E-1
30	0	0	552251
31	20	0	551780
32	40	0	551697
33	60	0	551697
34	80	0	551814
35	100	0	551636
36	120	0	551707
37	140	0	551110
38	160	0	552023
39	180	0	551620
40	200	0	551711
41	220	0	551597
42	240	0	550414
43	240	-20	551771
44	220	-20	551483
45	200	-20	551484
46	180	-20	551967
47	160	-20	551511
48	140	-20	551378
49	120	-20	552095
50	100	-20	551549
51	80	-20	551604
52	60	-20	551621
53	40	-20	551647
54	20	-20	551817
55	0	-20	551690
56	0	20	551511
57	20	20	551693
58	40	20	552468
59	60	20	551572
60	80	20	551532
61	100	20	551634
62	120	20	551473

MAGNETOMETER DATA - GRID 6

Station Number	X-Coord.	Y-Coord.	Gammas E-1
64	240	0	551119
65	220	0	551644
66	200	0	551406
67	180	0	551631
68	160	0	551939
69	140	0	551735
70	120	0	552567
71	100	0	551754
72	80	0	551630
73	60	0	552375
74	40	0	550655
75	20	0	551150
76	0	0	551388
77	0	20	551449
78	20	20	551351
79	40	20	550723
80	60	20	552168
81	80	20	551837
82	100	20	551268
83	120	20	552041
84	140	20	551814
85	160	20	551651
86	180	20	551568
87	200	20	551429
88	220	20	551422
89	240	20	551470
90	240	40	551723
91	220	40	551450
92	200	40	551538
93	180	40	551834
94	160	40	551810
95	140	40	551459
96	120	40	551207
97	100	40	551194
98	80	40	551724
99	60	40	551660
100	40	40	551475
101	20	40	551430
102	0	40	551506
103	0	60	551294
104	20	60	551472
105	40	60	551398

6 8 0532

106	60	60	551938
107	80	60	551179
108	100	60	551319
109	120	60	551390
110	140	60	551326
111	160	60	551376
112	180	60	551735
113	200	60	551846
114	220	60	551632
115	240	60	551670

6 8 0503

MAGNETOMETER DATA - GRID 7

Station Number	X-Coord.	Y-Coord.	Gammas E-1
117	0	0	551716
118	20	0	551547
119	40	0	551485
120	60	0	551484
121	80	0	550219
122	100	0	546821
123	120	0	557316
124	140	0	552527
125	160	0	551483
126	180	0	551113
127	180	-20	551378
128	160	-20	551426
129	140	-20	551431
130	120	-20	551071
131	100	-20	550581
132	80	-20	550967
133	60	-20	551250
134	40	-20	551400
135	20	-20	551443
136	0	-20	551379
137	0	-40	551807
138	20	-40	551458
139	40	-40	551248
140	60	-40	551554
141	80	-40	551313
142	100	-40	551462
143	120	-40	551335
144	140	-40	551388
145	160	-40	552196
146	180	-40	551480

6 8 0534

MAGNETOMETER DATA - GRID 8

Station Number	X-Coord.	Y-Coord.	Gammas E-1
147	160	0	551538
148	140	0	551569
149	120	0	551067
150	100	0	552853
151	80	0	551592
152	60	0	549552
153	40	0	558151
154	20	0	551486
155	0	0	551438
156	0	20	551514
157	20	20	551611
158	40	20	551374
159	60	20	551312
160	80	20	551432
161	100	20	551177
162	120	20	551241
163	140	20	551324
164	160	20	551546
165	160	40	551128
166	140	40	551626
167	120	40	551404
168	100	40	551049
169	80	40	552201
170	60	40	551440
171	40	40	551566
172	20	40	551688
173	0	40	551355
174	0	60	551297
175	20	60	551517
176	40	60	551108
177	60	60	551332
178	80	60	551671
179	100	60	551349
180	120	60	552071
181	140	60	551040
182	160	60	551049
183	160	80	550366
184	140	80	554663
185	120	80	552174
186	100	80	551157
187	80	80	551647
188	60	80	551420
189	40	80	552949

6 8 0555

190	20	80	551165
191	0	80	548846

6 8 0000

MAGNETOMETER DATA - GRID 9

Station Number	X-Coord.	Y-Coord.	Gammas E-1
295	140	0	551454
296	120	0	551685
297	100	0	551250
298	80	0	550679
299	60	0	551330
300	40	0	551801
301	20	0	551624
302	0	0	551651
303	0	20	551480
304	20	20	551714
305	40	20	551739
306	60	20	551624
307	80	20	551552
308	100	20	551579
309	120	20	551575
310	140	20	551394
311	140	40	551662
312	120	40	551644
313	100	40	551843
314	80	40	551839
315	60	40	551461
316	40	40	551573
317	20	40	551743
318	0	40	551726

OVERSIZED

DOCUMENT

MAP